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THE

WEEKLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

FOR THE YEAR

1885

(NEW SERIES)

CONTAINING

SYNOPTIC CHARTS,

AND

DESCRIPTIVE SUMMARIES OF THE WEATHER FOR EACH DAY;

ALSO

TABULAR SUMMARIES OF TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE, FOR EACH WEEK.

Published by the Authority of the Meteorological Council.

LONDON:
PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL,
AND E. STANFORD, 55 CHARING CROSS.

Price Sixpence.

PREFACE.

In the Weekly Weather Report for 1885 two new columns have been added to the Table on the last page of each Report, giving the values for Accumulated Temperature, above and below 42°, for each station.

The general arrangement of the Report is as follows:—

LIST OF DISTRICTS.

For the purpose of this Report the United Kingdom is divided into 11 Districts, which are shown on the accompanying map, distinguished by the numbers 0 to 10. The positions of the stations supplying information are marked on the map by black dots, and their names are given in the following list arranged under the districts to which they belong:—

METEOROLOGICAL DISTRICTS.

0. SCOTLAND, N.—Sumburgh Head, Stornoway, Wick.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.

2. ENGLAND, N.E.—Alnwick Castle, Shields, Scarborough, York, Spurn Head.

3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.

4. MIDLAND COUNTIES.—Bawtry, Loughborough, Leicester, Cheadle, Churchstoke, Hereford, Cirencester, Oxford.

5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dungeness, Hastings (St. Leonard's), Southampton, Hurst Castle.

6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).

7. ENGLAND, N.W.—Newton Reigny (Penrith), Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.

8. ENGLAND, S.W.—Llandovery, Pembroke, Arlington (N. Devon), Cullompton, Falmouth, Plymouth, Prawle Point.

9. IRELAND, N.—Malin Head, Londonderry, Mullaghmore, Belmullet, Markree Castle, Brookeborough, Armagh, Donaghadee, Edgeworthstown.

10. IRELAND, S.—Dublin, Parsonstown, Kilkenny, Waterford, Roche's Point, Valencia, Killarney, Foynes.

Besides the stations above named, there are two in the Channel Islands, viz., Scilly (St. Mary's), and Jersey (Noirmont), which cannot be conveniently placed in any of the Districts.

TEMPERATURE.

The Summary gives for each week and each District the absolute *maximum* and *minimum*, the averages of both the daily extremes, the daily mean, and its difference from the mean of the corresponding period as derived from observations of 20 years, 1861–80, together with the values for Accumulated Temperature above and below 42° F.

DAILY MEAN TEMPERATURE.

The daily mean Temperature shown in the Tables is no longer the simple arithmetical mean between the daily maximum and minimum, but is calculated from these with reference to the varying relation found to subsist, from month to month, between the true mean temperature of the day derived from 24 hourly observations, and the means of the daily maxima and minima for a series of years at Greenwich and the seven self-registering Observatories of the Meteorological Council.

The approximate Mean Daily Temperature in any month is found by multiplying the *difference* between the observed maximum and minimum by the proper coefficient, shown in the following Table, and adding the product to the observed minimum:—

Months.	Coefficient.
January. December.	0·520
February. November.	0·500
March. October.	0·485
April. September.	0·476
May. August.	0·470
June. July.	0·465

Example:

The mean maximum temperature for a week in December being - - - 48°·1

The mean minimum - - - - - - - - - - - - 39°·3

The difference is - - - - - - - - - - - - 8°·8

This difference 8°·8 × ·520 (the coefficient for December) = 4°·6.

This product when added to the mean minimum, 39°·3, gives 43°·9, the required mean daily temperature of the week.

ACCUMULATED TEMPERATURE.

The Tables of Accumulated Temperature are designed to give persons engaged in agriculture better means of estimating the manner in which vegetation is affected by temperature than that afforded by the more usual methods of treating the readings of the thermometer. They show for each week, and for the whole period from the commencement of the year, the weekly and progressive values respectively of the combined amount and duration of the excess or defect of the air temperature, above or below a suitably fixed standard or *base temperature*. The base adopted

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is 42° F., as being nearly equivalent to 6° C., which has been considered by Continental writers on these subjects to be the critical value, the temperature above which is mainly effectual in starting and maintaining the growth, and in completing the ripening, of agricultural crops in a European climate. This base is also convenient as being 10° F. above the freezing point.

The Accumulated Temperature is expressed in Day-degrees; a Day-degree signifying 1° F. of excess or defect of temperature above or below 42° F. continued for 24 hours; or any other number of degrees for an inversely proportional number of hours.

When the temperature during any period remains either wholly above or below the base temperature, the difference between the base and the mean temperature gives the correct accumulated temperature. In other cases this difference gives an approximate value of the accumulated temperature which does not depart greatly from the truth, the deviation depending on the greater or less extent of the variations of the temperature above or below the base. Further, since the mean between the maximum and minimum of any day is nearly equal to the mean temperature of the day, the difference of the mean of the maximum and minimum from the base will also give, directly, a fair approximation to the accumulated temperature for the day.

The following rules supply a still closer approximation to the true values sought, and they have been adopted for the preparation of the Tables in the Report. They may be applied to any other base temperature as well as to 42° F., with the slight modification of the numerical coefficients mentioned below.

RULES for computing for a WEEKLY PERIOD the ACCUMULATED TEMPERATURE above or below 42° F. from the observed MAXIMUM and MINIMUM.

1. Obtain the mean temperature, from the means of the seven observed maxima and minima, in the manner already described for daily values.

2. In obtaining the accumulated temperature four cases may occur, to which the following rules will apply:—

Conditions of Temperature.	To obtain the Accumulated Temperature.	
	Above 42° F.	Below 42° F.
If the minimum is *above* 42° F. or *equal* to 42° F.	Subtract 42° F. from the mean.	There is none.
If the minimum is *below* 42° F., but the mean for the day is *above* 42° F.	From the difference between the mean for the day and the minimum deduct the accumulated temperature below 42° F., calculated as stated in the next column.	The required quantity is the excess of 42° F. over the minimum multiplied by the coefficient 0·4.
If the mean or the day is *below* 42° F., but the maximum is *above* 42° F.	The required quantity is the excess of the maximum over 42° F. multiplied by the co-efficient 0·4.	From the difference between the mean for the day and the minimum deduct the accumulated temperature above 42° F., calculated as stated in the preceding column.
If the maximum is *below* 42° F., or *equal* to 42° F.	There is none.	Subtract the mean from 42° F.

In each of the above cases the result will be the average daily value for the week, and must be multiplied by 7 in order to obtain the value for the whole week.

The coefficient varies with the duration of the period, and with the base temperature.

The coefficient above given, in Rule 2, is for a weekly period, and for the base temperature 42° F. The following are its values for other base temperatures, viz., for 32° F., 0·4; for 52° F., 0·33; for 62° F., 0·25.

A full explanation of the principles on which these rules are based will be found in Appendix II. to the Quarterly Weather Report for 1878.

RAINFALL.

The Summary gives for each week and each District the number of rainy days, the total fall of rain, and the difference between this amount and the mean for the corresponding week in the 15 years 1865–80, as well as the corresponding values reckoned from the commencement of the year.

BRIGHT SUNSHINE.

The Summary gives for each week and each District the numbers of hours of sunshine recorded, and the percentage of that time to the whole time the sun is above the horizon; also the corresponding values reckoned from the commencement of the year.

APPENDIX.

This contains (1) Summaries for each Quarter and for the whole year of the Temperature and Rainfall records for each District, and (2) Tables giving for each district the monthly values for Rainfall, Accumulated Temperature, and Bright Sunshine, as well as the progressive values for each from the commencement of the year.

Tables showing for each degree of Latitude from 49° N. to 58° N. and for each Weekly and Monthly period the total number of hours during which the Sun is above the Horizon, together with their Reciprocals, are given in the Preface to Vol. I. of this Series.

TABLE SHOWING THE REPORTS RECEIVED TOO LATE FOR INSERTION IN THEIR PROPER PLACES.

No. of Report.	For Week ending	Names of Stations.	Temperature. (In Degrees Fahrenheit.)								Rainfall. (Amounts in tenths of an inch.)			Bright Sunshine.	
			Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day Degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Per-centage of possible duration.
					Of Highest each day.	Of Lowest each day.	For whole of the day.		Above 42° F.	Below 42° F.					
			°	°	°	°	°	°				Inches.	Inches.		
1	January 5	Londonderry	55	34	48·2	37·1	42·9	+ 2·0	27	14	6	0·55	−0·35	*	*
,,	,, ,,	Edgworthstown	51	34	?45·0	?36·3	?40·8	?+ 0·4	8	23	5	0·40	?	*	*
,,	,, ,,	Foynes	54	34	50·1	35·5	43·1	+ 1·4	35	18	6	0·67	?	*	*
2	,, 12	Foynes	52	31	47·9	33·1	40·8	− 0·8	17	37	4	1·67	?	*	*
3	,, 19	Foynes	43	28	41·5	29·7	35·8	− 5·7	0	43	1	0·03	?	*	*
6	February 9	Foynes	52	34	49·5	35·8	42·7	+ 1·2	31	17	7	1·78	?	*	*
8	,, 23	Foynes	55	26	46·7	34·1	40·4	− 1·7	13	31	5	0·95	?	*	*
10	March 9	Newton Reigny	44	27	39·9	30·4	35·0	− 4·3	0	49	4	1·41	?	13	17
,,	,, ,,	Foynes	56	28	51·7	34·1	42·7	− 0·1	38	22	1	0·10	?	*	*
15	April 13	Newton Reigny	49	32	45·9	35·0	40·1	− 4·2	11	25	2	0·11	?	16	17
,,	,, ,,	Llandudno	48	38	46·1	39·2	42·4	− 5·3	15	8	2	0·21	−0·19	18	19
17	,, 27	Foynes	58	40	54·8	43·0	49·0	− 0·1	46	0	4	1·06	?	*	*
21	May 25	Laudale	56	38	51·9	42·1	46·7	− 2·9	33	0	6	1·43	?	*	*
22	June 1	Killarney	62	40	59·3	47·5	53·0	− 0·6	77	0	5	1·10	?	*	*
28	July 13	Llandudno	69	50	65·4	52·4	58·5	− 2·1	116	0	2	0·20	−0·40	52	45
,,	,, ,,	Waterford	69	40	64·4	48·6	56·0	− 4·5	98	0	4	0·54	?	*	*
29	,, 20	Llandudno	65	45	62·1	51·3	56·3	− 4·3	100	0	5	1·37	+0·74	24	21
31	August 3	Llandudno	69	51	65·9	53·1	59·1	− 1·6	120	0	0	—	−0·62	69	64
33	,, 17	Foynes	72	49	65·5	50·4	57·5	− 1·2	109	0	1	0·15	?	*	*
34	,, 24	Waterford	74	41	69·9	49·0	58·8	− 0·5	118	0	1	0·54	−0·31	*	*
,,	,, ,,	Foynes	72	48	68·0	49·8	58·4	+ 0·1	115	0	0	—	?	*	*
37	September 14	Strathfield Turgiss	70	50	65·1	51·3	57·9	0·0	111	0	?2	2·04	+1·37	*	*
38	,, 21	Leicester	76	45	68·3	50·0	58·7	+ 3·7	117	0	2	0·29	−0·41	39	45
,,	,, ,,	Foynes	63	41	60·3	42·2	50·8	− 4·9	62	0	7	0·38	?	*	*
39	,, 28	Llandudno	62	40	55·3	44·5	49·7	− 6·0	54	0	5	0·79	−0·11	34	41
,,	,, ,,	Foynes	64	37	60·4	44·4	52·0	− 2·7	70	0	5	0·68	?	*	*
40	October 5	Llandudno	61	44	56·2	46·1	51·0	− 3·4	63	0	6	1·45	+0·55	16	26
41	,, 12	Llandudno	55	36	52·4	42·5	47·3	− 5·6	37	0	4	1·50	+0·57	22	29
42	,, 19	Llandudno	55	42	52·3	44·1	48·1	− 3·3	43	0	3	0·22	−0·73	10	14
,,	,, ,,	Foynes	57	40	51·8	41·9	46·7	− 3·0	33	0	4	0·22	?	*	*
43	,, 26	Llandudno	51	37	48·3	41·3	44·7	− 5·2	22	2	5	1·43	+0·48	9	13
44	November 2	Llandudno	57	38	48·8	42·6	45·6	− 1·6	25	0	5	1·03	+0·13	13	20
47	,, 23	Foynes	52	32	46·9	37·9	42·4	− 0·6	20	11	4	0·44	?	*	*
48	,, 30	Waterford	55	35	51·9	42·6	47 3	+ 4·3	37	0	6	2·54	+1·64	*	*
,,	,, ,,	Foynes	57	39	53·4	42·8	48·1	+ 5·6	43	0	7	1·42	?	*	*
49	December 7	Foynes	55	33	49·6	36·8	43·5	+ 1·3	32	15	7	1·17	?	*	*

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PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 1.] *New Series.* WEEK ENDING MONDAY, 5TH JANUARY, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 4.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	50	31	43·9	37·5	40·8	2 above.	5	5	18	18
	1. SCOTLAND, EAST	50	27	41·3	31·6	36·7	1 below.	0	0	37	37
	2. ENGLAND, N.E.	48	28	39·5	31·8	35·8	2 below.	0	0	43	43
	3. ENGLAND, EAST	47	23	37·6	30·3	34·1	4 below.	0	0	55	55
	4. MIDLAND COUNTIES	52	23	38·2	29·3	34·0	4 below.	0	0	56	56
	5. ENGLAND, SOUTH	49	21	40·2	32·1	36·3	3 below.	0	0	40	40
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	52	25	42·1	33·3	37·9	2 below.	0	0	32	32
	7. ENGLAND, N.W.	50	25	39·9	31·6	35·9	4 below.	0	0	43	43
	8. ENGLAND, S.W.	52	23	44·9	35·2	40·2	2 below.	8	8	27	27
	9. IRELAND, NORTH *	53	33	46·3	37·6	42·1	1 above.	19	19	12	12
	10. IRELAND, SOUTH *	54	28	48·6	38·5	43·8	2 above.	27	27	10	10
	— CHANNEL ISLANDS	53	29	45·5	38·0	41·9	3 below.	10	10	18	18

	DISTRICTS. (See p. 4.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	7	2 less.	4	7	1	1	2	2
	1. SCOTLAND, EAST	2	3	2 less.	2	3	2	2	4	4
	2. ENGLAND, N.E.	1	less than ½	5 less.	1	less than ½	0	0	0	0
	3. ENGLAND, EAST	2	less than ½	5 less.	2	less than ½	4	4	7	7
	4. MIDLAND COUNTIES	1	less than ½	6 less.	1	less than ½	1	1	1	1
	5. ENGLAND, SOUTH	2	1	6 less.	2	1	0	0	0	0
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	4	6	6 less.	4	6	3	3	5	5
	7. ENGLAND, N.W.	2	1	6 less.	2	1	0	0	0	0
	8. ENGLAND, S.W.	4	3	8 less.	4	3	2	2	4	4
	9. IRELAND, NORTH *	5	6	2 less.	5	6	5	5	10	10
	10. IRELAND, SOUTH *	6	11	1 more.	6	11	8	8	14	14
	— CHANNEL ISLANDS	3	4	5 less.	3	4	2	2	3	3

General Remarks.

Weather has continued very dull, cold, and dry over England, but in Ireland and the west and north of Scotland it has been unsettled and milder, with showers of rain, hail, or sleet.

Temperature has been 1° or 2° above the mean in Ireland and "Scotland, N.", but elsewhere it has varied from 1° to 4° below. The maxima, which were recorded on the 4th or 5th, ranged from 54° in "Ireland, S." to 47° in "England, E." The minima were registered on different days in the various parts of the Kingdom, and ranged from 21° in "England, S." and between 23° and 28° in most other districts to 33° in "Ireland, N." and 34° in "Scotland, N." The diurnal range over England was generally very slight.

Rainfall has been a little more than the mean over "Ireland, S.", but less in all other districts. Over the greater part of England the fall has been scarcely appreciable.

Bright sunshine has been unusually deficient. In "England, N.E.", "England, N.W.", and "England, S." none at all has been recorded, while elsewhere the percentages of the possible number of hours have varied from 2 in "Scotland, N." to 7 in "England, E." and to between 10 or 14 over Ireland.

Depressions observed.—A large area of high pressure has held steadily over the continent, but soon after the commencement of the period the barometer fell at our western stations, and depressions began to move northwards outside the Irish and Scotch coasts. On 3rd January an irregularly shaped disturbance had appeared over our south-western districts, on the 4th a large and rather deep depression was passing north-north-eastwards off the west of Scotland, while on the 5th some subsidiary disturbances were passing in a similar direction over the United Kingdom. Under these conditions fresh or strong Southerly winds have prevailed at all our western and north-western stations, while light or moderate South-Easterly to Southerly breezes have been general in the south-east and east.

* In consequence of the non-arrival of the Returns from Londonderry and Foynes the values in these districts are liable to alteration.

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A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 4.)	Temperature of the Air.									
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.			
				Averages of				Above 42°		Below 42°	
		Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.		For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	50	31	43·9	37·5	40·8	2 above.	5	5	18	18
	1. SCOTLAND, EAST	50	27	41·3	31·6	36·7	1 below.	0	0	37	37
	2. ENGLAND, N.E.	48	28	39·5	31·8	35·8	2 below.	0	0	43	43
	3. ENGLAND, EAST	47	23	37·6	30·3	34·1	4 below.	0	0	55	55
	4. MIDLAND COUNTIES	52	23	38·2	29·3	34·0	4 below.	0	0	56	56
	5. ENGLAND, SOUTH	49	21	40·2	32·1	36·3	3 below.	0	0	40	40
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	52	25	42·1	33·3	37·9	2 below.	0	0	32	32
	7. ENGLAND, N.W.	50	25	39·9	31·6	35·9	4 below.	0	0	43	43
	8. ENGLAND, S.W.	52	23	44·9	35·2	40·2	2 below.	8	8	27	27
	9. IRELAND, NORTH *	53	33	46·3	37·6	42·1	1 above.	19	19	12	12
	10. IRELAND, SOUTH *	54	28	48·6	38·5	43·8	2 above.	27	27	10	10
	— CHANNEL ISLANDS	53	29	45·5	38·0	41·9	3 below.	10	10	18	18

	DISTRICTS. (See p. 4.)	Rainfall.					Bright Sunshine.			
		For the Week.			Since Dec. 30/84.		Hours recorded.		Percentage of the possible Duration.	
		Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Number of Rainy Days.	Total Fall.	For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	7	2 less.	4	7	1	1	2	2
	1. SCOTLAND, EAST	2	3	2 less.	2	3	2	2	4	4
	2. ENGLAND, N.E.	1	less than ½	5 less.	1	less than ½	0	0	0	0
	3. ENGLAND, EAST	2	less than ½	5 less.	2	less than ½	4	4	7	7
	4. MIDLAND COUNTIES	1	less than ½	6 less.	1	less than ½	1	1	1	1
	5. ENGLAND, SOUTH	2	1	6 less.	2	1	0	0	0	0
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	4	6	6 less.	4	6	3	3	5	5
	7. ENGLAND, N.W.	2	1	6 less.	2	1	0	0	0	0
	8. ENGLAND, S.W.	4	3	8 less.	4	3	2	2	4	4
	9. IRELAND, NORTH *	5	6	2 less.	5	6	5	5	10	10
	10. IRELAND, SOUTH *	6	11	1 more.	6	11	8	8	14	14
	— CHANNEL ISLANDS	3	4	5 less.	3	4	2	2	3	3

General Remarks.

Weather has continued very dull, cold, and dry over England, but in Ireland and the west and north of Scotland it has been unsettled and milder, with showers of rain, hail, or sleet.

Temperature has been 1° or 2° above the mean in Ireland and "Scotland, N.", but elsewhere it has varied from 1° to 4° below. The maxima, which were recorded on the 4th or 5th, ranged from 54° in "Ireland, S." to 47° in "England, E." The minima were registered on different days in the various parts of the Kingdom, and ranged from 21° in "England, S." and between 23° and 28° in most other districts to 33° in "Ireland, N." and 34° in "Scotland, N." The diurnal range over England was generally very slight.

Rainfall has been a little more than the mean over "Ireland, S.", but less in all other districts. Over the greater part of England the fall has been scarcely appreciable.

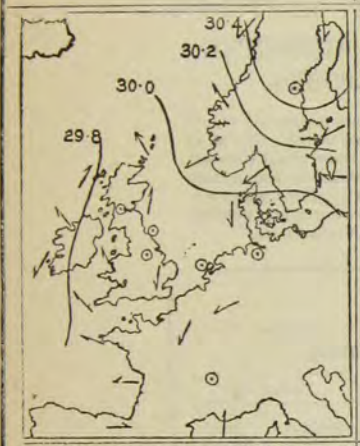
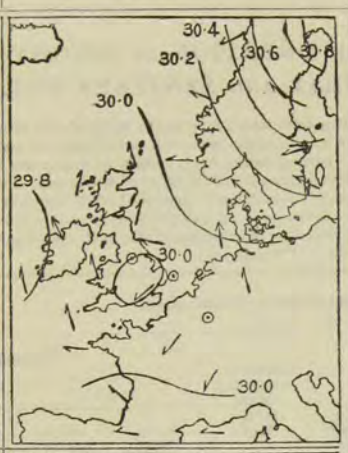
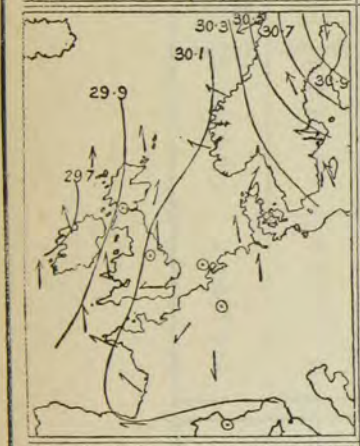
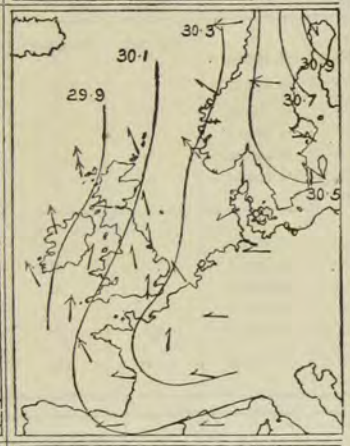
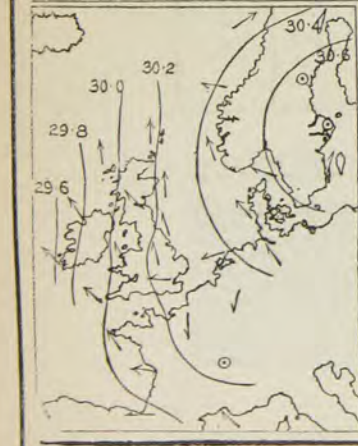
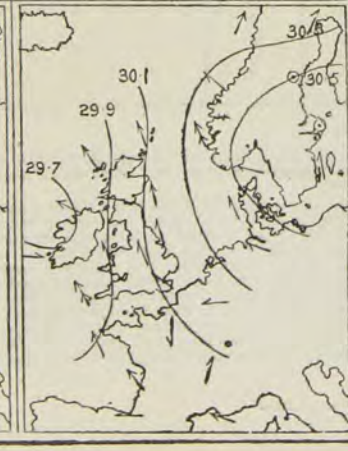
Bright sunshine has been unusually deficient. In "England, N.E.", "England, N.W.", and "England, S." none at all has been recorded, while elsewhere the percentages of the possible number of hours have varied from 2 in "Scotland, N." to 7 in "England, E." and to between 10 or 14 over Ireland.

Depressions observed.—A large area of high pressure has held steadily over the continent, but soon after the commencement of the period the barometer fell at our western stations, and depressions began to move northwards outside the Irish and Scotch coasts. On 3rd January an irregularly shaped disturbance had appeared over our south-western districts, on the 4th a large and rather deep depression was passing north-north-eastwards off the west of Scotland, while on the 5th some subsidiary disturbances were passing in a similar direction over the United Kingdom. Under these conditions fresh or strong Southerly winds have prevailed at all our western and north-western stations, while light or moderate South-Easterly to Southerly breezes have been general in the south-east and east.

* In consequence of the non-arrival of the Returns from Londonderry and Foynes the values in these districts are liable to alteration.

E 15679. 400.—1/85. Wt. 24. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, December 30.** *Weather* dull in most places, with fog or mist locally, rain at Valencia, and snow at Oxö and Cuxhaven. *Temperature* risen a little at our western and several of the French stations, but fallen elsewhere; readings ranging from 47° at Scilly to 32° at Leith and Cambridge and 30° at Nairn. Sharp frost over England at night; lowest minima being 23° at Oxford and Cambridge and 25° at Loughborough. *Wind* Easterly or North-Easterly at our south-eastern and most of the Continental stations, but South-Easterly or Southerly in the west and north. Light or moderate in force in most places, but strong in the south of Norway. *Sea* rough off the south of Norway, and rather so at Sumburgh Head and Valencia, but moderate to smooth elsewhere. *Barometer* falling a little on the eastern shores of the North Sea, but rising elsewhere. Anticyclone lying over north of Scandinavia, with lowest readings on our extreme western coasts, but relatively low pressures over the North Sea.	
		**Wednesday, December 31.** *Weather* fine in most parts of Great Britain, but foggy over central England; cloudy or overcast at the Irish and most of the Continental stations. Rain falling in the west later. *Temperature* fallen a little in the north and east, but risen elsewhere; readings ranging from 51° at Scilly to 29° at York, Loughborough, and Oxford. *Wind* Southerly or South-Easterly in all parts of western Europe; fresh or strong in force on our western and north-western coasts, but light or moderate elsewhere. Slight gale in the west coasts of Ireland and Scotland at night. *Sea* rather rough on some of the Irish coasts. *Barometer* rising at all but our extreme western and northern stations. Anticyclone, with readings exceeding 30·9 ins. over the Gulf of Bothnia, and depression off the west of Ireland. Latter subsequently moving northwards, and barometer rising in west.	
		Thursday, January 1. *Weather* fine in England, but cloudy or overcast elsewhere, with mist or fog at the French stations. Cloud extending over England later. *Temperature* risen in Scotland and the north of Scandinavia, but fallen in most other localities; readings ranging from 50° at Scilly to 28° in London. Maxima over England very low; thermometer not exceeding 33° all day at Loughborough and Liverpool. *Wind* moderate from East or South-East at the south-eastern and most of the Continental stations, but fresh or strong from the Southward in the west and north. Subsequently increasing to fresh gale on the west coasts of Ireland and Scotland. *Sea* rough in the south-west, west, and extreme north. *Barometer* rising generally. Anticyclone, with readings exceeding 30·7 ins. still lying over the Gulf of Bothnia, and area of low pressure off the west of Ireland. Fall taking place in extreme west later.	
		**Friday, January 2.** *Weather* dull in most places, with mist in France and showers at Aberdeen and Roche's Point. Rain falling later at several of the western and northern stations. *Temperature* fallen several degrees in the west and north; readings ranging from 50° at Valencia to 30° at Oxford. Maxima over Central England varying between 33° and 35°. *Wind* Southerly in Scotland but South-Easterly elsewhere; strong to a gale on many parts of our western and northern coasts. Subsequently veering to West in the south of Ireland, and falling light. *Sea* rough in the south-west, west, and extreme north. *Barometer* falling generally. Anticyclone, with readings above 30·7 ins., over the Baltic; depression, with readings below 29·6 ins, off the west of Ireland. Depression subsequently moving northwards, and barometer rising at Valencia.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

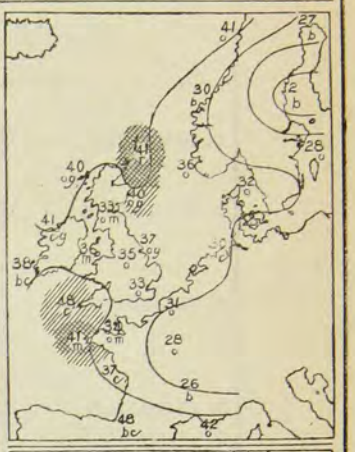
Weather

During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.



Saturday, January 3.

Weather fine in the north of Scandinavia and west and south of Ireland, but very cloudy elsewhere, with rain at Sumburgh Head, Donaghadee, and Pembroke. Snow showers falling in west of Scotland later.

Temperature risen several degrees in the west of France, but fallen a little in most other localities; readings ranging from 48° at Scilly to 32° at Leith and Loughborough. Maxima over central England again varying between 33° and 35°.

Wind North-Westerly on our extreme south-west coasts, but Southerly or South-Easterly elsewhere; moderate or fresh in force generally, but strong in the north of Scotland.

Sea high off the extreme north of Scotland and rough at the mouth of the Channel.

Barometer falling at all but our south-western stations. Anticyclone over Baltic with lowest pressures to the westward of our Islands and long band of relatively low readings over our south-west coasts. Rise taking place later in nearly all parts of our Islands.

Sunday, January 4.

Weather cloudy or overcast generally, with rain at most of the Irish stations. Rain extending to Scotland later.

Temperature fallen over Scandinavia, Denmark, and the east coast of England, but risen elsewhere; readings ranging from 51° at Valencia to 31° at Leith and Shields. Maxima over England about 10° higher than on two preceding days.

Wind strong to a gale from South on our extreme western and northern coasts, but light and chiefly Easterly at our south-eastern and the Continental stations.

Sea rough in the west and north.

Barometer rising over France and the greater part of England, but falling elsewhere; large area of high pressure extending from Scandinavia across Germany to the east of France, with rather deep depression off the west of Scotland. No important change later.

Monday, January 5.

Weather fair in Ireland but dull elsewhere, with slight rain in many parts of Great Britain. Hail and sleet showers falling in the north-west and north later, with lightning at some of the Irish and Scotch stations.

Temperature risen several degrees over England, but fallen in Ireland and Scotland; readings ranging from 50° at Scilly to 37° at Stornoway. Sharp frost over the midland counties at night.

Wind moderate North-Westerly in the west and north, but fresh or strong from South-West or South elsewhere. Subsequently backing to South-West in extreme west.

Sea rough in the west and north.

Barometer falling at all but the western stations. Large area of high pressure still lying over the Continent, but small shallow depressions found in various parts of our Islands. Fresh fall taking place in extreme west at night.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➤ = a gale; ⟶ = a fresh to strong breeze; ⟵ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 1 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	45	34	43·1	36·9	40·1	+ 0·2	3	19	5	0·61	−0·26	*	*
	Stornoway	50	36	45·3	38·9	42·2	+ 3·0	14	9	5	1·00	−0·20	1	2
	Wick	48	35	43·3	36·7	40·2	+ 1·4	4	21	2	0·45	−0·08	*	*
1. SCOTLAND, E.	Nairn	48	27	41·3	30·4	36·1	− 1·6	0	41	2	0·36	−0·09	*	*
	Aberdeen	45	32	41·3	34·4	38·0	+ 0·6	0	28	4	0·56	−0·09	2	4
	Leith	50	27	41·3	30·1	35·9	− 1·8	0	43	0	—	−0·45	*	*
2. ENGLAND, N.E.	Alnwick Castle	47	29	40·1	31·1	35·8	− 1·8	0	43	1	0·01	?	*	*
	Shields	48	30	40·3	31·7	36·2	− 2·5	0	41	1	0·02	−0·52	*	*
	Scarborough ⁂	47	31	38·8	32·7	35·9	− 2·0	0	43	1	0·01	−0·55	*	*
	York	48	28	38·3	30·4	34·5	− 3·6	0	53	0	—	−0·47	0	0
	Spurn Head	46	32	40·1	33·0	36·7	− 2·0	0	37	2	0·04	?	*	*
3. ENGLAND, E.	Hillington ⁂	46	26	37·4	29·7	33·7	− 3·6	0	58	2	0·06	−0·42	4	8
	Yarmouth	43	30	38·4	33·0	35·8	− 2·8	0	43	1	0·04	−0·54	*	*
	Geldeston	43	25	38·3	31·0	34·8	− 3·7	0	50	2	0·04	−0·40	4	7
	Cambridge	47	23	38·1	28·9	33·7	− 4·2	0	58	1	0·01	−0·39	4	7
	Rothamsted	46	25	36·0	28·8	32·5	− 5·0	0	67	5	0·07	−0·55	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	48	24	37·6	28·9	33·4	− 5·3	0	60	0	—	−0·48	*	*
	Loughborough	48	25	37·4	29·9	33·8	− 3·9	0	57	1	0·01	−0·50	*	*
	Leicester	48	24	37·0	28·3	32·8	− 4·5	0	64	1	0·01	−0·47	0	0
	Cheadle ⁂	46	26	36·1	28·3	32·4	− 4·8	0	67	1	0·02	?	*	*
	Churchstoke ⁂	50	27	38·6	29·4	34·2	− 3·9	0	55	1	0·01	?	0	0
	Hereford ⁂	50	28	39·2	30·6	35·1	− 3·4	0	48	2	0·04	−0·58	*	*
	Cirencester	52	23	41·4	?28·9	?35·4	?− 2·8	0	46	2	0·07	−0·70	2	4
	Oxford	49	23	38·6	30·3	34·6	− 4·4	0	52	0	—	−0·53	0	0
5. ENGLAND, S.	London†	49	27	39·6	30·7	35·3	− 3·8	0	47	1	0·02	−0·51	0	0
	Marlborough ⁂	48	28	37·6	30·4	34·2	− 4·0	0	55	2	0·09	−0·66	0	0
	Strathfield Turgiss ⁂	48	21	38·8	26·9	33·1	− 5·6	0	62	1	0·02	−0·58	*	*
	Dungeness	45	33	41·1	33·6	37·5	− 3·1	0	32	2	0·18	?	*	*
	Hastings (St. Leonard's)	45	32	39·6	34·6	37·2	− 3·0	0	34	3	0·13	−0·58	0	0
	Southampton	49	30	41·4	33·7	37·8	− 1·4	0	29	1	0·02	−0·71	1	2
	Hurst Castle	48	33	43·4	34·9	39·3	− 1·7	4	27	1	0·02	−0·71	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	52	35	45·0	36·9	41·1	+ 1·4	8	21	7	1·89	?	*	*
	Glasgow	49	28	41·2	31·9	36·7	− 1·9	0	37	4	0·34	−0·72	2	4
	Ardrossan	47	30	41·7	32·4	37·2	− 2·0	0	34	4	0·21	−0·83	*	*
	Silloth (Cumberland)	47	25	40·0	29·8	35·1	− 3·9	0	48	3	0·21	−0·59	4	8
	Douglas (Isle of Man)	48	33	42·6	35·5	39·2	− 1·5	2	24	4	0·36	−0·35	2	4
7. ENGLAND, N.W.	Newton Reigny (Penrith)	44	25	37·2	27·7	32·6	− 4·7	0	66	3	0·13	?	1	2
	Barrow-in-Furness	44	33	38·4	34·0	36·3	− 4·2	0	40	3	0·16	?	*	*
	Stonyhurst	46	28	41·5	29·7	35·8	− 2·6	0	43	2	0·07	−0·93	0	0
	Blackpool ⁂	46	28	40·0	29·6	35·0	− 5·6	0	49	1	0·26	−0·44	0	0
	Manchester	46	29	36·8	30·5	33·8	− 5·1	0	57	0	—	−0·70	*	*
	Liverpool Obsy (Bidston)	48	30	39·9	32·1	36·2	− 3·8	0	41	2	0·12	−0·46	*	*
	Llandudno ⁂	49	29	?41·7	?32·8	?37·4	?− 4·1	0	32	2	0·11	−0·61	?	?
	Holyhead	50	32	43·3	36·1	39·8	− 3·2	4	22	3	0·22	−0·65	*	*
8. ENGLAND, S.W.	Llandovery	49	23	42·4	29·6	36·2	− 3·9	1	45	2	0·23	?	*	*
	Pembroke	50	33	46·1	38·9	42·6	− 0·1	17	9	5	0·30	−0·60	2	4
	Arlington (N. Devon)	48	29	42·0	33·6	38·0	− 2·4	0	28	4	0·29	?	*	*
	Cullompton ⁂	52	31	44·2	34·4	39·5	− 1·6	6	30	2	0·06	?	1	2
	Falmouth	51	36	47·5	39·9	43·9	+ 0·2	22	6	7	0·67	−0·68	3	5
	Plymouth	51	29	46·5	34·3	40·6	− 2·0	13	32	5	0·20	−0·77	2	4
	Prawle Point	50	32	45·9	35·4	40·9	− 1·4	11	28	3	0·19	?	*	*
9. IRELAND, N.	Malin Head	51	34	47·4	36·7	42·3	+ 1·9	24	15	4	0·34	?	*	*
	Londonderry													
	Mullaghmore	53	36	47·6	39·6	43·8	+ 1·6	23	7	5	0·45	?	*	*
	Belmullet	51	35	47·6	38·3	43·1	− 1·1	23	10	6	0·90	?	*	*
	Markree Castle	52	33	46·6	37·1	42·0	+ 0·3	13	14	6	0·35	−0·44	5	10
	Brookeborough	51	33	45·2	36·9	41·2	+ 1·2	9	21	5	0·97	?	*	*
	Armagh	50	34	45·5	36·6	41·2	+ 1·4	10	22	6	0·77	+0·07	5	10
	Donaghadee	49	36	44·0	38·1	41·2	+ 0·3	6	16	5	0·50	−0·18	*	*
	Edgeworthstown													
10. IRELAND, S.	Dublin	53	34	47·1	38·2	42·8	+ 1·9	22	11	6	0·31	−0·20	4	8
	Parsonstown	52	31	47·1	37·9	42·7	+ 2·7	22	11	5	0·48	−0·22	9	17
	Kilkenny	52	29	47·0	37·0	42·2	+ 2·5	22	14	6	1·15	?	*	*
	Waterford	51	28	47·7	39·7	43·9	+ 2·2	23	6	6	1·38	+0·30	*	*
	Roche's Point	52	37	49·9	41·0	45·6	+ 2·5	29	3	6	1·51	+0·31	*	*
	Valencia	54	36	51·6	41·0	46·5	+ 1·2	36	3	7	1·29	−0·24	10	18
	Killarney	53	28	49·8	35·0	42·7	− 0·6	24	20	7	1·79	?	*	*
	Foynes												*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	39	50·4	?42·1	?46·4	?− 0·1	31	0	4	0·66	−0·29	*	*
	Jersey (Noirmont)	47	29	40·6	33·9	37·4	− 5·3	0	32	2	0·11	−0·69	2	3

Stations marked ⁂ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

NOTE.—It will be observed that Malin Head and Edgeworthstown have been added to the list of stations in "Ireland, N."

(OFFICIAL COPY.)

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 2.] *New Series.* WEEK ENDING MONDAY, 12TH JANUARY, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 8.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	47	30	40·7	33·5	37·2	2 below.	0	5	34	52
	1. SCOTLAND, EAST	47	31	41·2	33·6	37·6	0 (average).	0	0	31	68
	2. ENGLAND, N.E.	49	29	41·0	33·4	37·3	1 below.	0	0	33	76
	3. ENGLAND, EAST	51	25	41·1	30·2	35·9	2 below.	0	0	43	98
	4. MIDLAND COUNTIES	53	24	42·3	30·8	36·8	1 below.	1	1	41	97
	5. ENGLAND, SOUTH	51	24	44·1	31·2	37·9	1 below.	6	6	41	81
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	50	31	43·7	35·5	39·8	1 above.	5	5	25	57
	7. ENGLAND, N.W.	50	26	43·5	35·1	39·5	0 (average).	4	4	27	70
	8. ENGLAND, S.W.	52	21	46·1	33·0	39·8	2 below.	11	19	36	63
	9. IRELAND, NORTH	51	30	44·2	34·4	39·5	2 below.	6	26†	30	42
	10. IRELAND, SOUTH *	54	27	46·2	34·9	40·8	1 below.	12	40†	30	41†
	— CHANNEL ISLANDS	52	36	47·5	39·8	43·8	0 (average.)	22	32	6	24

	DISTRICTS. (See p. 8.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	12	4 more.	10	19	2	3	4	3
	1. SCOTLAND, EAST	5	6	1 more.	7	9	6	8	12	8
	2. ENGLAND, N.E.	5	6	2 more.	6	6	0	0	0	0
	3. ENGLAND, EAST	6	11	6 more.	8	11	10	14	19	13
	4. MIDLAND COUNTIES	5	8	2 more.	6	8	9	10	17	9
	5. ENGLAND, SOUTH	4	8	1 more.	6	9	11	11	19	10
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	13	2 less.	9	19	8	11	15	10
	7. ENGLAND, N.W.	4	8	1 more.	6	9	3	3	6	3
	8. ENGLAND, S.W.	6	14	3 more.	10	17	16	18	27	16
	9. IRELAND, NORTH	6	11	3 more.	11	17	11	16	21	16
	10. IRELAND, SOUTH *	5	10	0 (average).	11	21	19	27	34	24
	— CHANNEL ISLANDS	7	12	3 more.	10	16	19	21	33	18

General Remarks.

Weather has been cloudy or dull and unsettled generally, with rather frequent falls of rain during the earlier part of the period, and of snow, hail, or sleet towards its close. Thunder and lightning occurred at many of our south-western stations during the evening or night of the 10th.

Temperature has been about equal to the mean for the season in "Scotland, E.", "England, N.W.", and the "Channel Islands", and 1° above it in "Scotland, W.", but in all other districts it has varied from 1° to 2° below. The maxima were registered in most places on the 10th, when the thermometer rose to 54° in "Ireland, S.", 53° in the "Midland Counties", and to between 47° and 52° elsewhere. The minima, which were recorded on different dates in the various localities, ranged from 21° in "England, S.W." (at Llandovery), and 24° in the "Midland Counties" and "England, S.", to 31° in the east and west of Scotland and to 36° in the "Channel Islands".

Rainfall has been more than the mean in nearly all districts, the excess being greatest in "England, E."

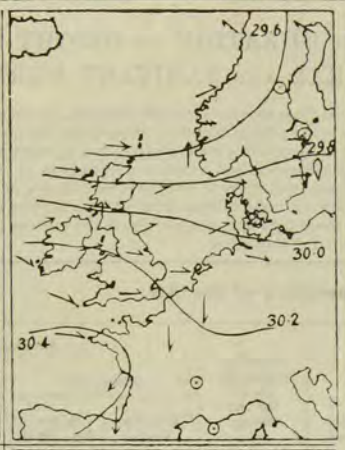
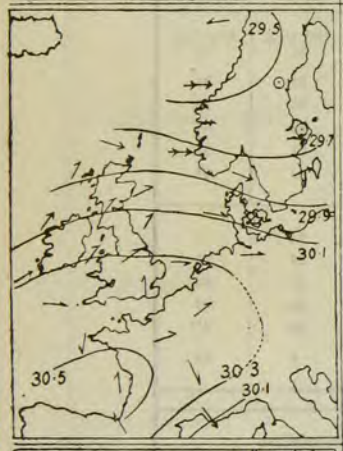
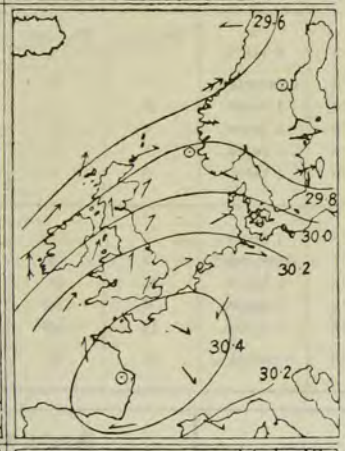
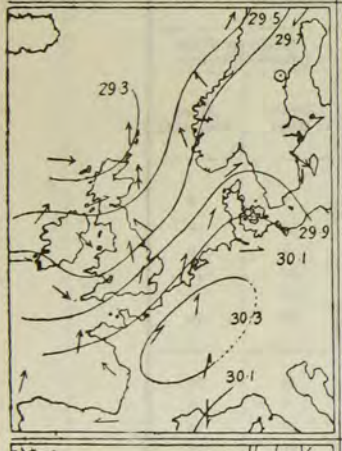
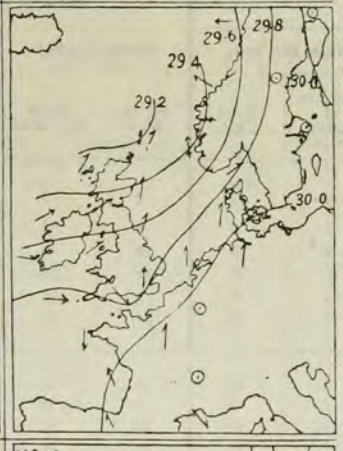
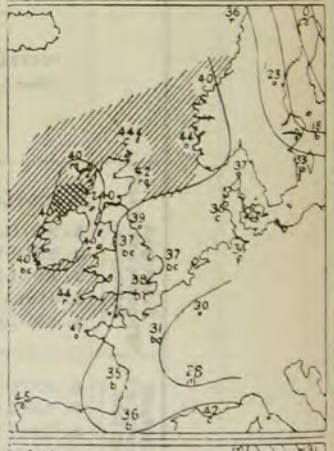
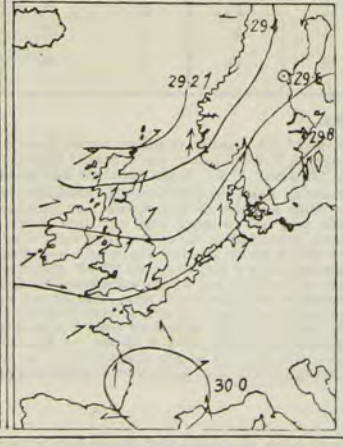
Bright sunshine, though still very deficient in most places, has been rather more prevalent than of late, especially in the south-west. The percentages of the possible duration varied from 4 in "Scotland, N." and 6 in "England, N.W.", to 33 in the "Channel Islands" and 34 in "Ireland, S.", while in "England, N.E." bright sunshine was again quite absent.

Depressions observed.—Barometric pressure has been highest over France, while a series of depressions has travelled north-eastwards and eastwards over the western and northern parts of our area, and some subsidiary disturbances in similar directions over our Islands. The depression which most affected the winds and weather in our immediate neighbourhood was a very deep one which passed across Scotland from the westward on the 10th, and a deep subsidiary disturbance which was formed simultaneously over the North Sea. The former caused the wind, which had previously been fresh or strong from between south and west, to blow a strong gale from the westward over England and Ireland, while the latter produced strong gales from the northward in Scotland. As the depression disappeared to the eastward the barometer rose rapidly, and strong Northerly winds or gales were experienced on all our coasts.

* Owing to the non-arrival of the Returns from Poynes the accumulated values in this district are liable to alteration.
† These values have been altered slightly owing to the receipt of some arrears of observations.

E 15753. 400.—1/85. Wt. 24. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

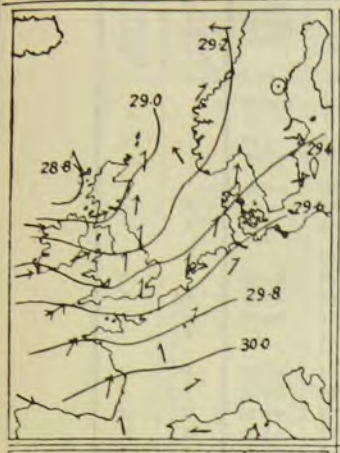
Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather during the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, January 6.** *Weather* rainy in Denmark and the Netherlands, but fair or fine elsewhere. Snow and hail showers falling later at many of the western and northern stations, and thunderstorm occurring at Wick in evening. *Temperature* risen at most of the Continental stations, but fallen in our Islands—quickly over England; readings ranging from 48° at Scilly to 24° at Loughborough. Brisk rise taking place over England later. *Wind* moderate from North-West or North over the Channel, but Westerly or South-Westerly elsewhere; strong in force on our north-west coasts. *Sea* rough in the extreme south-west, west, and north. *Barometer* rising a little over the south of our Islands and north of France, but falling elsewhere. Anticyclone lying over the Bay of Biscay, with large depression to the northward of Scotland and small shallow disturbance over the Netherlands. Both depressions moving eastwards later, and barometer rising in all parts of the Kingdom.	
		**Wednesday, January 7.** *Weather* fine at all but the Scandinavian stations, where cloudy with snow or rain. Cloud and rain setting in on our western and northern coasts later. *Temperature* changed little and irregularly; readings ranging from 48° at Valencia to 30° at Oxford, Cambridge, Yarmouth, and Dungeness. *Wind* light North-Westerly on the Channel coasts and Northerly in the south-east of France, but South-Westerly or Westerly elsewhere; strong to a gale in the west and south of Norway. Subsequently backing to the Southward on our western and northern coasts, and increasing to a gale. *Sea* rough on our extreme south-west coasts and also at Sumburgh Head. *Barometer* rising at all but our extreme western and the Swedish stations. Anticyclone, with readings above 30·5 ins., lying over the Bay of Biscay, with large depression off the north-west of Norway. New depression appearing off our extreme north-west coasts later, and barometer falling generally.	
		**Thursday, January 8.** *Weather* dull and rainy at several of our western and northern stations, but fair or fine elsewhere. Rain falling in east and south later, but weather improving in west and north. *Temperature* risen at all but the French stations; readings ranging from 46° at Prawle Point to 35° at Cambridge. Maxima below 40° in the east of England. *Wind* moderate Westerly in Ireland and the west of Scotland, but strong Southerly elsewhere, with gales at Aberdeen and Prawle Point. Wind subsequently moderating over Great Britain. *Sea* rough on all but our south-east coast. *Barometer* falling generally. Anticyclone over France, with large depression to the northward of Scotland, and small subsidiary disturbances over our western coasts. Recovery of pressure taking place in west later.	
		**Friday, January 9.** *Weather* dull and unsettled in Scandinavia, but fair in most parts of our Islands, with, however, showers at some of the south-western stations. Rain falling later in all parts of the Kingdom. *Temperature* fallen a little; readings ranging from 46° at Pembroke to 28° in London. *Wind* North-Westerly in the south of Ireland, but South-Westerly or Southerly elsewhere; moderate or fresh in force generally. Subsequently veering to west in many parts of our Islands. *Sea* rough at the mouth of the Channel, and rather so at Sumburgh Head and Dungeness, moderate to smooth elsewhere. *Barometer* falling at all but our extreme western stations. Pressure highest south-east of France, with large depression to the north-westward of Scotland, and subsidiary disturbance over the St. George's Channel. Depressions moving eastward later, and barometer rising in extreme west.	

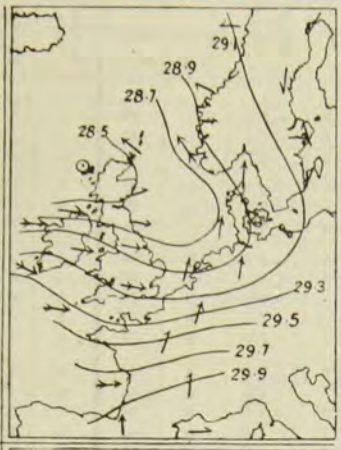
SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

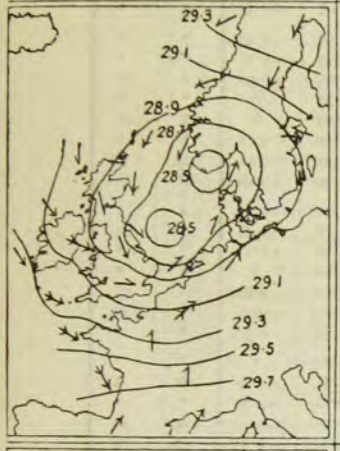
Synoptic Charts.

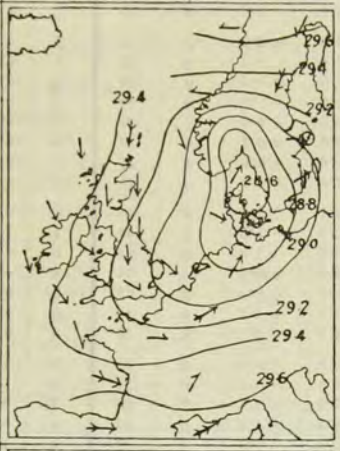
PRESSURE AND WIND.

8 a.m. | **6 p.m.**









Weather

During the 24 hours succeeding

8 a.m. on the dates given.

Saturday, January 10.

Weather cloudy or overcast generally with rain in many parts of Great Britain and France. Rain falling generally later, and thunder and lightning occurring at several of our western and southern stations.

Temperature risen several degrees, readings ranging from 52° at Valencia, Roche's Point, and Scilly to 37° at Nairn. Fall taking place in west later.

Wind moderate from the Southward on our north and east coasts, but strong from the Westward in the west and south. Subsequently increasing to strong gale from West over Ireland and England.

Sea rough in the west and south.

Barometer falling at all but the southern French stations. Pressure still highest in south-east of France, but deep depression advancing over Scotland. Depression subsequently moving slowly eastwards, but new disturbance forming over the North Sea and barometer continuing to fall fast generally.

Sunday, January 11.

Weather cloudy and showery at most of the eastern stations, but improving in the west. Sleet showers falling later in several parts of the Kingdom and lightning occurring at Ardrossan at night.

Temperature fallen quickly; readings ranging from 46° at Scilly to 37° at Aberdeen and Parsonstown. Frost occurring over Great Britain at night.

Wind Easterly in Scandinavia and North-Easterly or Northerly in Scotland but North-Westerly or Westerly elsewhere; strong to a gale in most places. Subsequently veering to the Northward in all parts of our Islands, but still blowing strongly.

Sea very rough at all but a few of our east coast stations.

Barometer rising in Ireland and the west of Scotland, falling elsewhere. Deep depression lying over the south of Norway and another off the north-east of England. Both moving eastwards later and barometer rising fast generally.

Monday, January 12.

Weather fair on the whole, but with showers of hail or snow locally. Snow or sleet falling later over the whole kingdom.

Temperature again fallen several degrees; readings varying from 43° at Scilly to 30° at Sumburgh Head. Maxima below 40° at all our northern and eastern stations.

Wind North-Easterly in Scandinavia, but Northerly in our Islands and France; strong in force generally, with gales on the east coasts of Great Britain. Gales subsiding later.

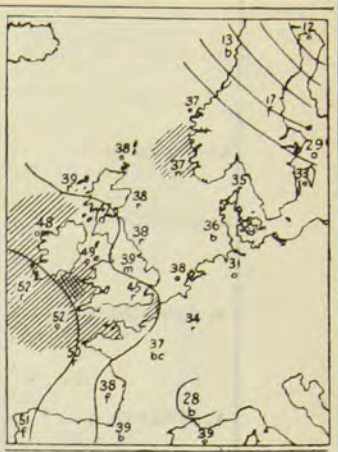
Sea high on our north and north-east coasts, rough elsewhere.

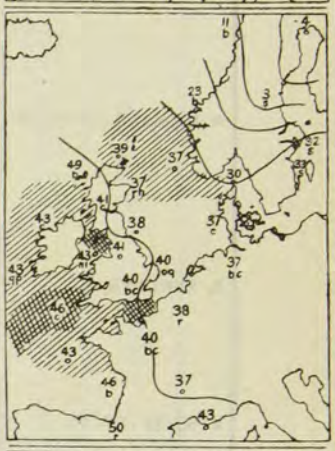
Barometer rising fast generally. Depression of previous day passing away over Europe, and high pressure area appearing on our western coasts. Rise continuing all day.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 5 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°					Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	44	30	41·0	34·6	37·9	− 1·5	0	29	7	0·79	−0·06	*	*
	Stornoway	47	32	40·6	33·9	37·4	− 1·6	0	32	7	2·08	+0·88	2	4
	Wick	45	30	40·4	31·9	36·3	− 2·1	0	40	5	0·82	+0·36	*	*
1. SCOTLAND, E.	Nairn	43	32	40·6	33·9	37·4	0·0	0	32	6	0·69	+0·24	*	*
	Aberdeen	43	31	40·1	32·4	36·4	− 0·9	0	39	6	0·56	−0·04	6	12
	Leith	47	32	43·0	34·6	39·0	− 1·5	3	28	4	0·42	−0·03	*	*
2. ENGLAND, N.E.	Alnwick Castle	46	31	40·3	33·9	37·2	0·0	0	34	5	0·50	?	*	*
	Shields	49	33	42·6	35·0	39·0	+ 0·6	2	26	4	0·60	+0·13	*	*
	Scarborough ℔	48	31	40·4	33·1	36·9	− 0·8	0	36	5	0·95	+0·47	*	*
	York	43	29	41·7	31·7	36·9	− 1·1	0	36	5	0·61	+0·16	0	0
	Spurn Head	48	31	40·0	33·1	36·7	− 2·0	0	37	5	0·51	?	*	*
3. ENGLAND, E.	Hillington ℔	50	25	40·1	29·9	35·2	− 1·9	0	48	6	1·72	+1·27	8	15
	Yarmouth	48	28	40·1	30·9	35·7	− 2·5	0	44	6	0·92	+0·37	*	*
	Geldeston	50	28	41·5	31·2	36·6	− 1·5	0	38	7	1·16	+0·76	12	22
	Cambridge	51	26	42·0	28·9	35·7	− 1·6	0	44	5	0·77	+0·37	11	20
	Rothamsted	50	25	41·7	30·2	36·2	− 1·0	0	41	6	1·07	+0·42	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	50	28	40·6	31·4	36·2	− 2·0	0	41	5	0·33	−0·12	*	*
	Loughborough	51	24	42·6	30·6	36·8	− 0·4	2	42	5	0·73	+0·23	*	*
	Leicester	50	27	41·2	31·6	36·6	− 0·4	0	38	5	0·81	+0·35	6	11
	Cheadle ℔	48	28	39·8	29·8	35·0	− 1·9	0	49	4	0·83	?	*	*
	Churchstoke ℔	51	26	42·7	31·4	37·3	− 0·6	2	39	4	0·93	?	8	15
	Hereford ℔	53	26	45·5	30·4	38·3	+ 0·1	10	46	4	0·58	−0·07	*	*
	Cirencester	49	24	42·4	30·3	36·6	− 1·6	1	43	5	0·93	+0·13	? 13	? 24
	Oxford	50	28	43·4	31·0	37·4	− 1·3	4	41	5	0·96	+0·40	10	18
5. ENGLAND, S.	London†	51	26	43·6	30·1	37·1	− 1·5	4	45	5	0·65	+0·11	4	7
	Marlborough ℔	50	25	43·3	29·9	36·9	− 1·3	4	45	4	1·13	+0·33	13	23
	Strathfield Turgiss ℔	50	24	42·7	27·5	35·3	− 2·9	2	53	2	0·76	+0·14	*	*
	Dungeness	48	30	45·7	33·6	39·9	− 0·2	10	34	4	0·84	?	*	*
	Hastings (St. Leonard's)	48	32	44·0	35·9	40·1	+ 0·4	6	24	3	0·95	+0·25	14	25
	Southampton	51	25	43·6	31·3	37·7	− 1·3	4	40	5	0·65	−0·20	11	20
	Hurst Castle	49	29	46·0	29·9	38·3	− 2·3	11	48	3	0·64	−0·12	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	48	32	43·8	35·4	39·8	+ 0·6	5	26	5	3·06	?	*	*
	Glasgow	46	31	41·9	33·9	38·1	− 0·1	0	27	5	1·11	+0·03	2	4
	Ardrossan	47	32	44·4	36·4	40·6	+ 1·4	7	23	5	0·75	−0·34	*	*
	Silloth (Cumberland)	47	31	44·2	35·3	39·9	+ 1·2	6	26	4	0·66	−0·16	5	10
	Douglas (Isle of Man)	50	34	44·2	36·5	40·5	− 0·1	6	22	4	1·01	−0·26	17	32
7. ENGLAND, N.W.	Newton Reigny (Penrith)	48	29	40·4	32·2	36·5	− 0·7	0	39	7	1·01	?	5	10
	Barrow-in-Furness	46	34	42·9	38·6	40·8	+ 0·6	3	13	4	0·73	?	*	*
	Stonyhurst	48	29	44·9	31·8	38·6	+ 0·4	8	39	3	1·23	+0·26	4	8
	Blackpool ℔	46	31	42·8	34·8	39·0	− 1·3	2	27	3	0·72	+0·02	0	0
	Manchester	47	26	40·4	30·6	35·7	− 3·0	0	44	5	1·27	+0·57	*	*
	Liverpool Obsy (Bidston)	50	32	44·4	35·6	40·2	+ 0·6	7	25	5	0·65	+0·08	*	*
	Llandudno ℔	50	?36	?46·3	?37·8	?42·2	?+ 0·9	19	12	4	0·53	−0·17	4	7
	Holyhead	50	38	46·0	39·4	42·8	+ 0·2	17	7	4	0·60	−0·25	*	*
8. ENGLAND, S.W.	Llandovery	50	21	44·4	27·0	36·1	− 3·7	7	57	5	1·75	?	*	*
	Pembroke	50	33	46·7	39·3	43·2	+ 0·6	20	8	7	1·34	+0·44	15	27
	Arlington (N. Devon)	48	29	44·7	31·4	38·3	− 1·9	8	41	6	2·09	?	*	*
	Cullompton ℔	52	23	46·3	28·5	37·8	− 3·4	12	53	6	1·16	?	12	21
	Falmouth	51	36	46·8	38·5	42·8	− 0·8	20	10	7	1·62	+0·22	20	35
	Plymouth	51	29	46·6	31·7	39·5	− 2·8	13	42	6	0·70	−0·30	15	26
	Prawle Point	50	31	47·0	34·6	41·0	− 1·2	14	31	4	0·86	?	*	*
9. IRELAND, N.	Malin Head	50	34	47·0	35·3	41·4	+ 1·1	14	29	6	1·13	?	*	*
	Londonderry	51	33	44·6	34·4	39·7	− 1·5	7	30	7	1·38	+0·42	*	*
	Mullaghmore	49	35	45·1	37·3	41·4	− 0·9	9	20	7	1·41	?	*	*
	Belmullet	49	36	45·9	37·6	41·9	− 1·3	11	19	7	2·05	?	*	*
	Markree Castle	45	30	42·6	32·5	37·8	− 4·1	2	35	7	1·12	+0·32	12	23
	Brookeborough	49	31	42·4	33·4	38·1	− 2·0	1	32	4	0·72	?	*	*
	Armagh	50	30	42·6	33·3	38·1	− 1·4	2	32	7	0·57	−0·13	10	19
	Donaghadee	49	32	44·3	34·0	39·4	− 1·3	6	31	4	0·54	−0·16	*	*
	Edgeworthstown	49	30	43·0	32·1	37·8	− 2·6	3	37	5	0·63	?	*	*
10. IRELAND, S.	Dublin	51	31	44·7	35·8	40·4	− 0·4	8	25	5	0·63	+0·13	27	50
	Parsonstown	50	30	45·7	33·4	38·7	− 1·2	5	32	4	0·99	+0·20	18	33
	Kilkenny	51	27	44·6	29·6	37·4	− 2·1	7	47	5	0·81	?	*	*
	Waterford	51	31	45·8	33·3	39·8	− 1·6	11	35	4	0·77	−0·33	*	*
	Roche's Point	52	35	48·1	37·4	43·0	+ 0·1	26	13	5	0·87	−0·39	*	*
	Valencia	53	38	49·4	40·0	44·9	− 0·3	29	6	7	1·43	−0·17	11	20
	Killarney	54	30	47·2	34·9	41·3	− 2·1	15	30	7	1·74	?	*	*
	Foynes												*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	38	49·0	41·6	45·5	− 0·7	26	1	7	0·86	−0·09	*	*
	Jersey (Noirmont)	51	36	45·9	37·9	42·1	− 0·1	18	11	6	1·49	+0·69	19	33

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 3.] *New Series.* WEEK ENDING MONDAY, 19TH JANUARY, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 12.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	44	16	39·5	30·6	35·2	4 below.	0	5	48	100
	1. SCOTLAND, EAST	42	18	37·7	29·8	33·9	3 below.	0	0	57	125
	2. ENGLAND, N.E.	42	24	38·9	33·7	36·4	2 below.	0	0	39	115
	3. ENGLAND, EAST	39	24	36·7	31·8	34·4	3 below.	0	0	53	151
	4. MIDLAND COUNTIES	39	26	36·1	31·9	34·1	4 below.	0	1	55	152
	5. ENGLAND, SOUTH	43	25	37·5	32·1	34·9	4 below.	0	6	50	131
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	43	23	38·3	31·8	35·2	4 below.	0	5	48	105
	7. ENGLAND, N.W.	41	25	38·4	33·6	36·2	4 below.	0	4	41	111
	8. ENGLAND, S.W.	42	27	38·5	32·2	35·5	6 below.	0	19	46	109
	9. IRELAND, NORTH	43	23	38·6	30·0	34·5	7 below.	0	26	53	96*
	10. IRELAND, SOUTH †	46	22	39·8	31·3	35·7	6 below.	0	40	44	85
	— CHANNEL ISLANDS	46	31	40·7	34·4	37·6	7 below.	0	32	31	55

	DISTRICTS. (See p. 12.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	2	6 less.	13	21	8	11	16	8
	1. SCOTLAND, EAST	3	2	3 less.	10	11	5	13	10	9
	2. ENGLAND, N.E.	4	4	0 (average).	10	10	0	0	0	0
	3. ENGLAND, EAST	5	3	2 less.	13	14	1	15	2	9
	4. MIDLAND COUNTIES	5	2	4 less.	11	10	1	11	2	7
	5. ENGLAND, SOUTH	3	2	5 less.	9	11	2	13	3	8
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	1	less than ½	11 less.	10	19	9	20	17	13
	7. ENGLAND, N.W.	1	less than ½	7 less.	7	9	2	5	3	3
	8. ENGLAND, S.W.	1	less than ½	11 less.	11	17	9	27	16	12
	9. IRELAND, NORTH	1	less than ½	8 less.	12	17	18	34	32	16
	10. IRELAND, SOUTH †	2	1	9 less.	13	23*	16	43	28	26
	— CHANNEL ISLANDS	3	3	7 less.	13	18	10	31	17	18

General Remarks.

Weather has continued in a cloudy, gloomy condition in most parts of Great Britain, with some fog or haze and a few showers of cold rain or sleet; over Ireland, however, the sky has been rather clearer and the rainfall very slight.

Temperature has been below the mean in all districts, the deficit varying from 2° in "England, N.E." to as much as 6° in "England, S.W." and "Ireland, S.", and 7° in "Ireland, N." and the "Channel Islands". The maxima, which were recorded on the 18th or 19th in Ireland and Scotland and on various dates over England, ranged from between 39° and 44° in most districts, to 46° in "Ireland, S." and the "Channel Islands." The minima were generally registered on the 15th, when the thermometer fell to 16° in "Scotland, N.", 18° in "Scotland, E.", and to between 23° and 31° elsewhere. During the greater part of the week the diurnal range was very slight.

Rainfall has about equalled its normal value in England, but has been less in all other districts.

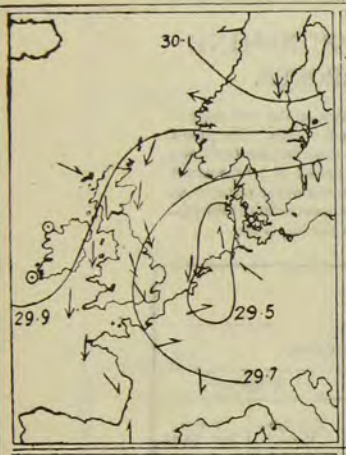
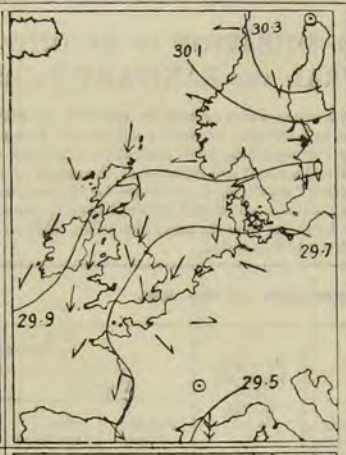
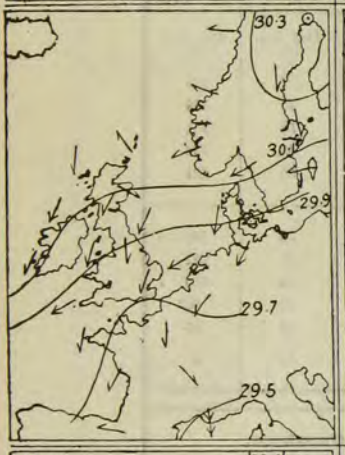
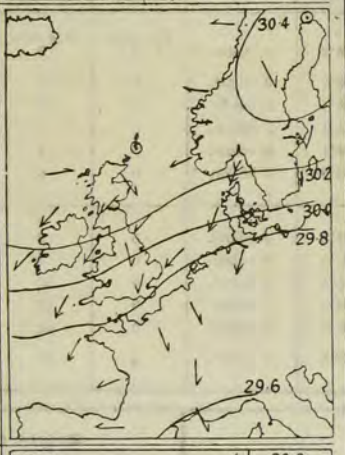
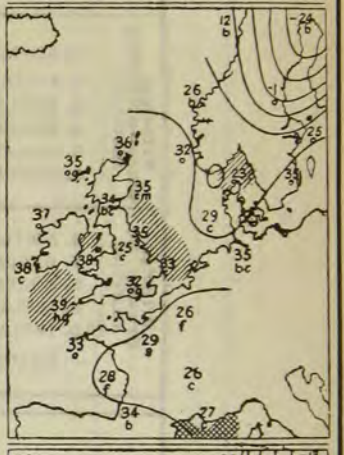
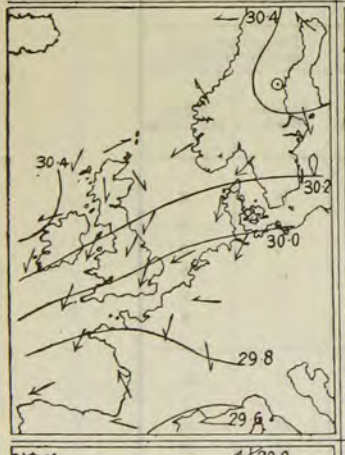
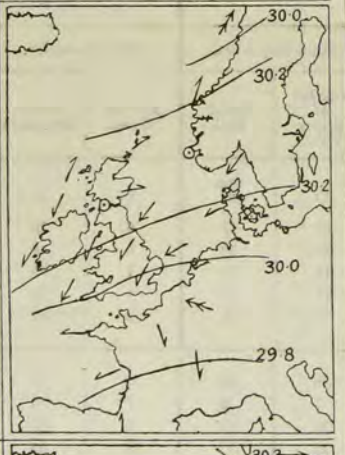
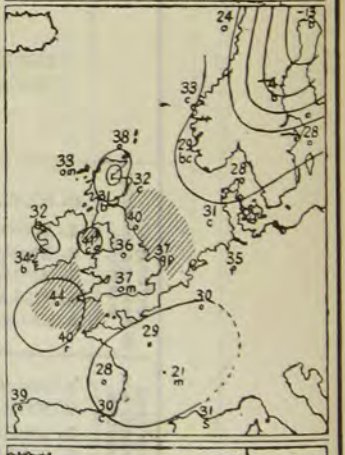
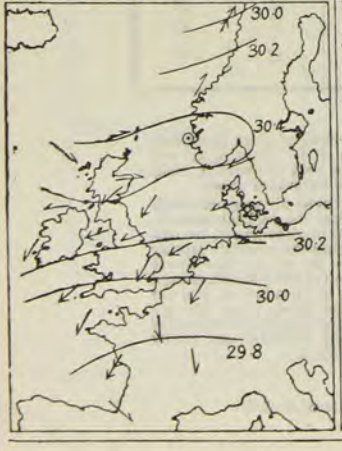
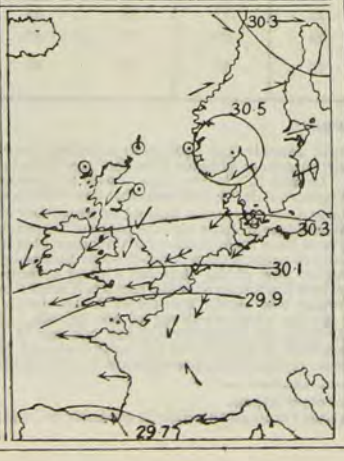
Bright sunshine has been more prevalent over Ireland than elsewhere, the percentages of possible duration varying from 32 in "Ireland, N." and 28 in "Ireland, S.", to less than 4 over the greater part of England, while in "England, N.E." bright sunshine has continued altogether absent.

Depressions observed.—Beyond an irregularly shaped disturbance which was shown over Holland and the south of Denmark as the week commenced, there have been no depressions of importance in our neighbourhood, the distribution of pressure over north-western Europe being anticyclonic. During the earlier part of the time the highest pressure lay off our north-west coasts, and the lowest over the south of France; but as the week progressed the former was slowly transferred to the south of Scandinavia, and the latter to the south-westward of our Islands. The wind, after blowing freshly from the northward at the opening of the period, subsequently became fresh or strong from the north-eastward and eastward, and finally moderate or light from the eastward or south-eastward.

* This value has been altered slightly owing to the receipt of some arrears of observations.
† In consequence of the non-arrival of the Return from Foynes the accumulated values in this district are liable to be altered slightly.

E 15819. 400.—1/85. Wt. 24. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, January 13.** *Weather* changeable, with snow showers in many parts of Great Britain, but fair or fine elsewhere. Snow falling in the north of France later. *Temperature* fallen a little; readings ranging from 41° at Scilly to 27° at Parsonstown. Maxima below 40°, excepting in Ireland and the extreme south of England. *Wind* Easterly in Scandinavia, but Northerly elsewhere; strong in force over Great Britain and the North Sea. Strong winds moderating later. *Sea* high at Aberdeen, and rough on all the more exposed parts of the English and Scotch coasts. *Barometer* falling in most parts of our Islands and France, but rising in Scandinavia. Pressure highest in north of Scandinavia, and relatively high off our western coasts, with elongated shallow depression over the Netherlands. Rise taking place in north and east later.	
		**Wednesday, January 14.** *Weather* fair in the west and north, but changeable, with snow showers, at our eastern, southern, and many of the French stations. *Temperature* risen a little on our extreme northern coasts, but fallen in France; readings ranging from 39° at Scilly to 25° at York. Maxima below 40° at all but a few of our western stations. Severe frost in Scotland at night. *Wind* light and variable in the north of Scotland, but North-Easterly elsewhere; strong in force over England, Ireland, and the North Sea. *Sea* rough off the east of England and at Scilly; moderate to smooth elsewhere. *Barometer* rising at all but the French stations. Pressure highest in the north of Scandinavia and lowest in the south-east of France. Rise extending to France later.	
		**Thursday, January 15.** *Weather* fine on our western and northern coasts, but cloudy or overcast elsewhere, with rain over centre and south-eastern England, and snow at Toulon. *Temperature* fallen in Scotland and the north of Ireland, but risen over England; readings ranging from 44° at Scilly to 20° at Nairn. Maxima again below 40° generally and as low as 28° at Nairn. *Wind* light and variable on our extreme north and north-west coasts, but Easterly or North-Easterly elsewhere, and strong in force in many parts of England. *Sea* rough on our eastern and south-western coasts. *Barometer* rising at all but the northern Scandinavian stations. An anticyclone with readings above 30·4 ins. lying over the Gulf of Bothnia and another off the west of Ireland, with lowest pressures in the south of France. Slight fall taking place on our western and northern coasts later.	
		**Friday, January 16.** *Weather* fine at some of the western and northern stations, but cloudy or overcast elsewhere. Thick fog prevailing in the extreme north of Scotland. Slight rain falling later in the east and south. *Temperature* risen in the north, but little changed elsewhere; readings ranging from 40° at Scilly to 20° at Aberdeen. *Wind* South-Westerly in the west of Norway and extreme north of Scotland, but Easterly or North-Easterly elsewhere; strong in force in the east and south of England. *Sea* rough on our eastern and southern coasts. *Barometer* rising at all but the French stations. Long band of high pressure extending from Scotland to the south of Sweden, with lowest readings in the south of France, but relatively low readings in the north of Scandinavia. Slight fall taking place over England and Ireland later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

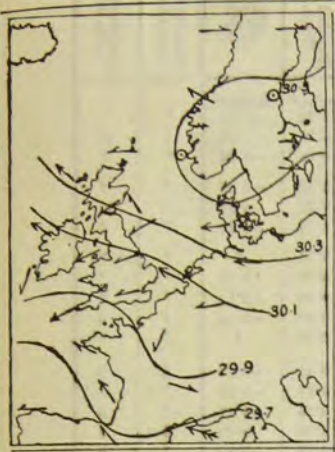
Weather

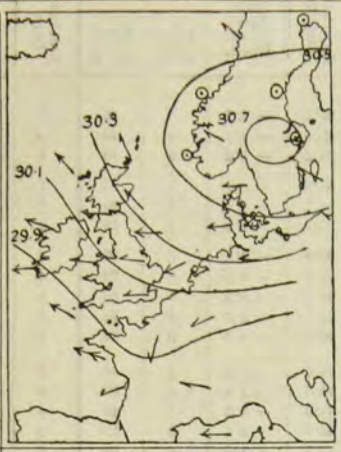
During the 24 hours succeeding 8 a.m. on the dates given.

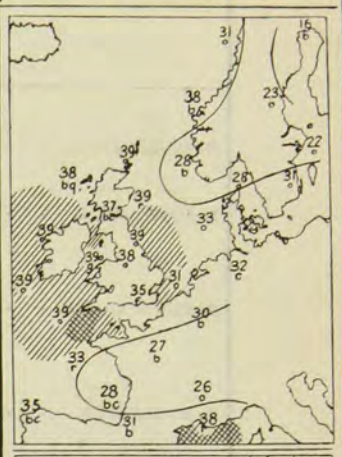
Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.







Saturday, January 17.

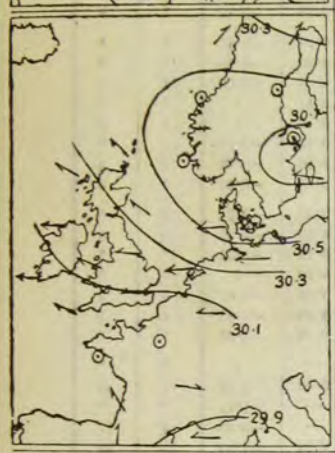
Weather fine at several of the French stations, but cloudy or overcast elsewhere, with snow at Oxford and rain at Aberdeen, Roche's Point, and Cambridge. A little rain falling later in many parts of the Kingdom.

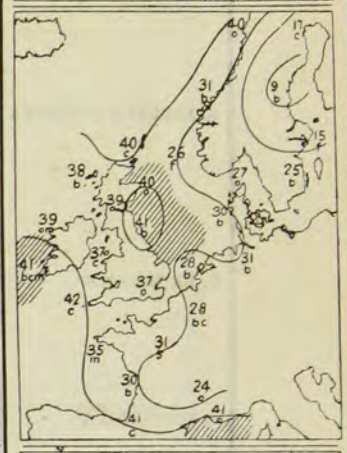
Temperature risen several degrees in the west and north, but changed little and irregularly elsewhere; readings very uniform between 40° and 32°. Maxima below 40° at most of the English stations.

Wind Easterly or South-Easterly; moderate on our north-east coasts but fresh or strong elsewhere, with a severe gale at Toulon.

Sea rough on nearly all the English and Irish coasts.

Barometer falling in our Islands but rising elsewhere. Anticyclone lying over Scandinavia with low pressures over the Bay of Biscay, and a local depression over the Gulf of Genoa. Slight rise taking place at our southern stations later.





Sunday, January 18.

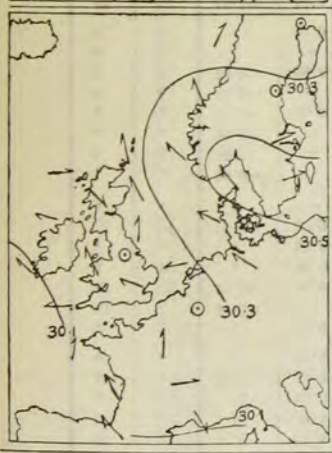
Weather dull and misty over the greater part of England, but fair or fine elsewhere. Snow, however, falling at Paris.

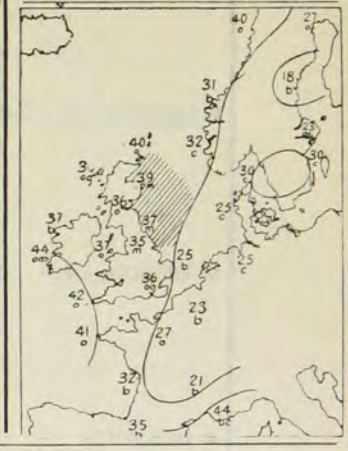
Temperature risen a little in most parts of our Islands and France, but fallen in Scandinavia; readings ranging from 42° at Scilly to 33° at Parsonstown.

Wind South-Westerly in the north of Scandinavia and variable in France, but Easterly (South-East to North-East) elsewhere; light to fresh in force generally.

Sea rough on our east coasts and also at Valencia, moderate to smooth elsewhere.

Barometer rising in most places. Anticyclone with readings above 30·7 ins. lying over the south of Scandinavia, and area of relatively low pressures off our south-west coasts.





Monday, January 19.

Weather fine in the north of Ireland, and also at several of the French stations, but cloudy or overcast elsewhere; with mist in many places.

Temperature fallen a little over Great Britain and France; readings ranging from 44° at Valencia to 33° at Nairn and Dungeness, and 29° at Parsonstown. Maxima below 40° in most places. Severe frost occurring in Scotland at night.

Wind calm or variable over eastern and central England, but South-Easterly or Easterly elsewhere. Easterly winds freshening later on our south-west coasts.

Sea rather rough at Aberdeen and Shields, moderate to smooth elsewhere.

Barometer falling a little on our northern coasts, and also on the eastern shores of the North Sea, but rising elsewhere. Distribution of pressure similar to that of previous day, but readings more uniform. Slight fall taking place generally later.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➤ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 9 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	44	30	41·0	33·6	37·5	− 1·7	0	32	5	0·25	−0·60	*	*
	Stornoway	44	26	39·3	30·3	35·0	− 3·7	0	49	3	0·16	−1·01	8	16
	Wick	42	16	38·1	27·9	33·2	− 5·0	0	62	1	0·08	−0·32	*	*
1. SCOTLAND, E.	Nairn	41	18	35·4	26·6	31·2	− 6·0	0	76	1	0·10	−0·34	*	*
	Aberdeen	42	19	38·6	29·3	34·1	− 3·1	0	55	5	0·21	−0·35	5	10
	Leith	41	31	39·1	33·4	36·4	− 1·0	0	39	3	0·16	−0·28	*	*
2. ENGLAND, N.E.	Alnwick Castle	40	31	38·6	34·7	36·8	− 0·4	0	36	4	0·39	?	*	*
	Shields	42	32	39·9	34·7	37·4	− 0·8	0	32	4	0·46	+0·03	*	*
	Scarborough ℜ	41	32	38·9	34·4	36·8	− 0·9	0	36	5	0·54	+0·14	*	*
	York	41	24	38·1	31·1	34·7	− 3·2	0	51	4	0·28	−0·14	0	0
	Spurn Head	41	26	38·9	33·6	36·4	− 2·3	0	39	5	0·29	?	*	*
3. ENGLAND, E.	Hillington ℜ	38	24	36·6	31·8	34·3	− 2·4	0	54	5	0·46	+0·05	3	5
	Yarmouth	38	30	36·7	32·7	34·8	− 3·4	0	50	5	0·30	−0·20	*	*
	Geldeston	38	26	37·3	32·4	35·0	− 3·2	0	49	4	0·28	−0·11	0	0
	Cambridge	39	25	37·0	30·7	34·0	− 3·4	0	56	4	0·19	−0·20	0	0
	Rothamsted	37	28	36·1	31·2	33·8	− 3·4	0	57	5	0·24	−0·43	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	39	28	36·7	32·6	34·8	− 3·5	0	50	5	0·28	−0·14	*	*
	Loughborough	39	30	36·3	32·9	34·7	− 2·5	0	51	5	0·29	−0·19	*	*
	Leicester	39	30	36·7	32·7	34·8	− 2·2	0	50	5	0·36	−0·09	1	2
	Cheadle ℜ	37	27	35·2	31·0	33·2	− 3·5	0	62	5	0·11	?	*	*
	Churchstoke ℜ	36	27	34·8	30·7	32·9	− 5·0	0	64	3	0·13	?	1	2
	Hereford ℜ	39	29	36·7	31·8	34·4	− 3·8	0	53	3	0·10	−0·55	*	*
	Cirencester	37	26	35·4	30·7	33·2	− 5·0	0	62	5	0·18	−0·62	1	2
	Oxford	38	29	37·0	32·4	34·8	− 3·8	0	50	5	0·15	−0·43	0	0
5. ENGLAND, S.	London†	39	31	37·3	33·4	35·5	− 2·9	0	46	3	0·20	−0·34	0	0
	Marlborough ℜ	36	25	35·3	30·6	33·1	− 4·9	0	62	6	0·19	−0·61	0	0
	Strathfield Turgiss ℜ	38	28	36·6	32·2	34·5	− 3·7	0	53	3	0·19	−0·42	*	*
	Dungeness	38	29	38·6	32·0	35·4	− 4·5	0	46	2	0·39	?	*	*
	Hastings (St. Leonard's)	39	29	36·5	32·1	34·4	− 5·2	0	53	5	0·31	−0·40	5	9
	Southampton	39	29	38·0	32·6	35·4	− 3·5	0	46	2	0·06	−0·83	1	2
	Hurst Castle	43	29	40·1	31·7	36·1	− 4·5	0	41	3	0·06	−0·69	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	43	23	36·9	29·3	33·2	− 6·0	0	62	0	—	?	*	*
	Glasgow	40	27	38·0	32·2	35·2	− 3·0	0	48	2	0·04	−1·06	7	13
	Ardrossan	41	26	38·7	30·4	34·7	− 4·5	0	51	0	—	−1·11	*	*
	Silloth (Cumberland)	41	29	38·7	32·1	35·5	− 3·2	0	46	0	—	−0·83	9	17
	Douglas (Isle of Man)	41	32	39·2	34·9	37·2	− 3·2	0	34	2	0·04	−1·24	11	20
7. ENGLAND, N.W.	Newton Reigny (Penrith)	40	25	36·3	30·8	33·7	− 3·5	0	58	3	0·10	?	4	8
	Barrow-in-Furness	41	30	39·0	33·9	36·6	− 3·5	0	38	0	—	?	*	*
	Stonyhurst	41	29	40·1	32·6	36·5	− 1·7	0	39	2	0·03	−0·92	3	5
	Blackpool ℜ	41	29	38·7	33·0	36·0	− 4·2	0	42	0	—	−0·70	0	0
	Manchester	39	28	37·0	32·9	35·1	− 3·5	0	48	3	0·03	−0·65	*	*
	Liverpool Obsy (Bidston)	39	30	37·9	33·6	35·9	− 3·6	0	43	0	—	−0·55	*	*
	Llandudno ℜ	40	34	38·4	35·4	37·0	— 4·3	0	35	0	—	−0·69	0	0
	Holyhead	41	34	40·0	36·7	38·4	− 4·2	0	25	0	—	−0·84	*	*
8. ENGLAND, S.W.	Llandovery	40	28	37·7	31·4	34·7	− 5·0	0	51	0	—	?	*	*
	Pembroke	41	32	38·9	34·1	36·6	− 5·8	0	38	1	0·02	−0·90	10	18
	Arlington (N. Devon)	38	30	36·4	31·1	33·9	− 6·3	0	57	1	0·03	?	*	*
	Cullompton ℜ	38	28	37·5	31·7	34·7	− 6·3	0	51	2	0·04	?	4	7
	Falmouth	42	32	40·3	33·4	37·0	− 6·3	0	35	1	0·06	−1·36	13	22
	Plymouth	42	29	40·2	32·3	36·4	− 6·0	0	39	0	—	−1·04	9	15
	Prawle Point	40	27	38·4	31·1	34·9	− 7·3	0	50	3	0·12	?	*	*
9. IRELAND, N.	Malin Head	—	—	—	—	—	—	—	—	1	0·02	?	*	*
	Londonderry	42	24	39·0	29·4	34·4	− 6·6	0	53	1	0·01	−0·97	*	*
	Mullaghmore	43	27	40·0	32·6	36·5	− 6·1	0	39	1	0·02	?	*	*
	Belmullet	41	28	39·7	32·1	36·1	− 8·5	0	41	3	0·12	?	*	*
	Markree Castle	39	23	37·5	27·5	32·7	− 9·4	0	65	1	0·02	−0·76	16	29
	Brookeborough	41	23	38·5	26·8	32·9	− 7·3	0	64	0	—	?	*	*
	Armagh	40	24	37·4	27·9	32·8	− 6·7	0	64	1	0·04	−0·66	19	35
	Donaghadee	42	30	40·6	35·9	38·4	− 2·2	0	25	2	0·05	−0·65	*	*
	Edgeworthstown	38	25	36·3	27·4	32·0	− 8·4	0	70	2	0·07	?	*	*
10. IRELAND, S.	Dublin	42	29	40·2	33·9	37·2	− 3·5	0	34	5	0·19	−0·30	8	14
	Parsonstown	39	24	37·4	26·4	32·1	− 7·9	0	69	1	0·04	−0·67	20	36
	Kilkenny	40	23	37·7	27·8	32·9	− 6·3	0	64	1	0·04	?	*	*
	Waterford	42	27	38·9	31·8	35·5	− 5·8	0	46	2	0·04	−1·08	*	*
	Roche's Point	46	31	42·3	34·6	38·6	− 4·3	1	27	1	0·25	−1·05	*	*
	Valencia	46	31	43·0	34·1	38·7	− 6·5	3	29	3	0·11	−1·51	19	33
	Killarney	43	22	38·8	30·5	34·8	− 8·4	0	50	2	0·08	?	*	*
	Foynes												*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	46	34	43·3	36·1	39·8	− 6·4	4	22	3	0·11	−0·86	*	*
	Jersey (Noirmont)	40	31	38·0	32·6	35·4	− 6·8	0	46	3	0·22	−0·58	10	17

Stations marked ℜ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Note.—The temperature readings at Malin Head are very unreliable and have consequently been rejected for this period.

(OFFICIAL COPY.)

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 4.] *New Series.* WEEK ENDING MONDAY, 26TH JANUARY, 1885. [*Price* 4*d.* [*Annual subscription, post paid*, £1 1*s.* 2*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861–80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866–80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 16.)	Temperature of the Air.								
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.		
				Averages of				Above 42°		Below 42°
		Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.		For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	45	26	42·0	34·8	38·5	0 (average).	0	5	25	125
	1. SCOTLAND, EAST	47	11	38·4	27·1	33·0	5 below.	0	0	63	188
	2. ENGLAND, N.E.	43	27	37·7	31·6	34·7	3 below.	0	0	51	166
	3. ENGLAND, EAST	44	19	37·0	27·6	32·5	5 below.	0	0	67	218
	4. MIDLAND COUNTIES	50	20	36·1	28·1	32·3	6 below.	0	1	68	220
	5. ENGLAND, SOUTH	47	22	39·3	30·9	35·3	4 below.	0	6	47	178
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	49	22	40·0	32·2	36·2	3 below.	0	5	41	146
	7. ENGLAND, N.W.	52	23	38·8	30·7	34·9	5 below.	0	4	50	161
	8. ENGLAND, S.W.	51	26	43·3	36·8	40·2	2 below.	4	23	20	129
	9. IRELAND, NORTH	52	25	44·0	36·7	40·5	1 below.	6	32	21	117
	10. IRELAND, SOUTH	54	28	47·6	39·7	43·8	2 above.	22	62	6	91
	— CHANNEL ISLANDS	53	25	44·1	37·4	40·9	3 below.	6	38	19	74

	DISTRICTS. (See p. 16.)	Rainfall.					Bright Sunshine.			
		For the Week.			Since Dec. 30/84.		Hours recorded.		Percentage of the possible Duration.	
		Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Number of Rainy Days.	Total Fall.	For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	2	4 less.	15	23 *	3	14	6	7
	1. SCOTLAND, EAST	1	2	3 less.	11	13	1	14	2	7
	2. ENGLAND, N.E.	2	1	3 less.	12	11	3	3	5	1
	3. ENGLAND, EAST	2	1	3 less.	15	15	18	33	31	15
	4. MIDLAND COUNTIES	3	2	4 less.	14	12	3	14	4	6
	5. ENGLAND, SOUTH	2	2	6 less.	11	13	6	19	9	8
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	3	6	5 less.	13	25	3	23	5	11
	7. ENGLAND, N.W.	3	3	4 less.	10	12	5	10	9	5
	8. ENGLAND, S.W.	4	6	5 less.	15	23	1	28	2	12
	9. IRELAND, NORTH	4	4	4 less.	16	21	3	37	5	17
	10. IRELAND, SOUTH	5	9	1 less.	18	32	5	48	8	22
	— CHANNEL ISLANDS	4	5	3 less.	17	23	5	36	8	15

General Remarks.

Weather has been less cloudy than of late in the south-east of England, but dull or gloomy elsewhere, with showers of rain over Ireland and the extreme south-west of England. By the end of the period the unsettled, rainy conditions had extended to the entire Kingdom. Much fog or haze was experienced during the earlier part of the period at some of the English stations.

Temperature has been 2° above the mean in "Ireland, S." and about equal to its normal value in "Scotland, N.", but below in all other districts, the deficit ranging from 1° in "Ireland, N." to between 4° and 6° over nearly the whole of England and in the east of Scotland. The daily maxima were generally low over the greater part of England and Scotland, but towards the end of the week they became higher, till by the 26th the thermometer had risen to between 43° and 51°, while in the "Channel Islands" and "Ireland, S." readings of 53° and 54°, respectively, were recorded. The minima, which were registered on different days in the various localities, ranged from 22° to 28° in the "Grazing Districts", to 20° in the "Midland Counties", 19° in "England, E.", and 11° in "Scotland, E." (at Nairn).

Rainfall has been less than the mean in all districts, especially in the south of England. At some of our south-eastern stations, in addition to the rain, there was a succession of heavy dews which caused sufficient water in the gauge for measurement.

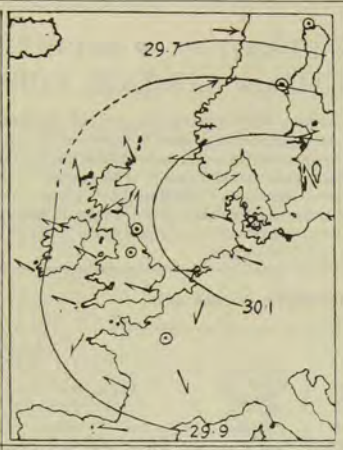
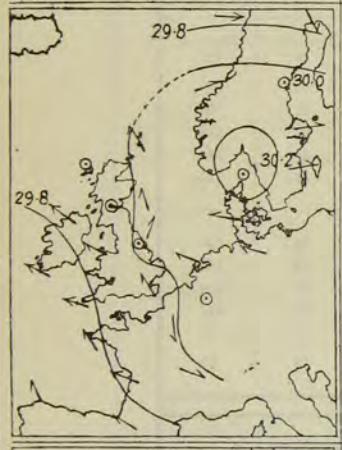
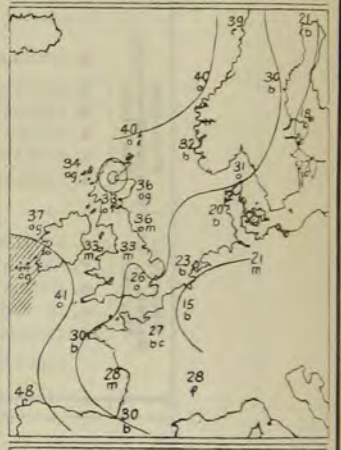
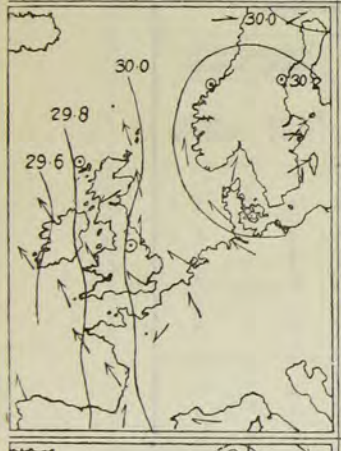
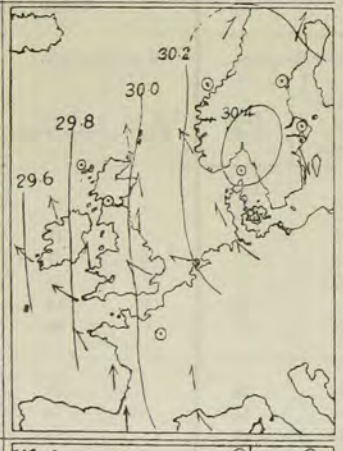
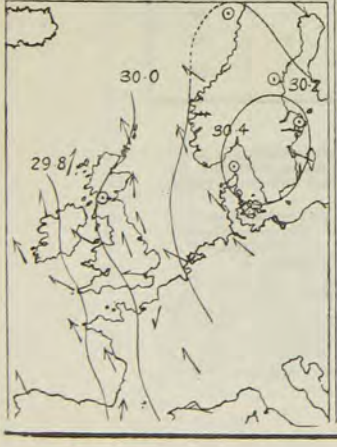
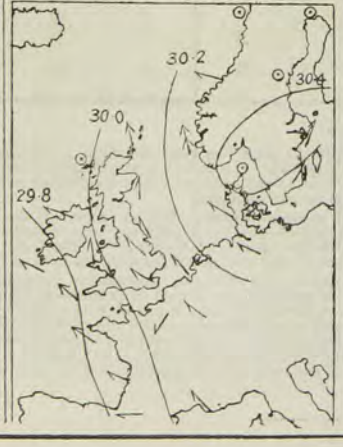
Bright sunshine shows a decided increase in the east and south-east of England, but elsewhere very little has been recorded. The percentages of the possible duration varied from 2 in "Scotland, E." and "England, S.W.", and between 4 and 9 in most other districts, to 31 in "England, E."

Depressions observed.—No depressions appeared in our immediate neighbourhood until the period drew towards its close, when the high pressure area recently established over Scandinavia moved slowly southwards and depressions began to skirt our extreme western coasts. Moderate to light breezes between south-east and south prevailed during the greater part of the week, but in the west they at times blew freshly or strong and at some of the more exposed spots attained the force of a moderate or fresh gale.

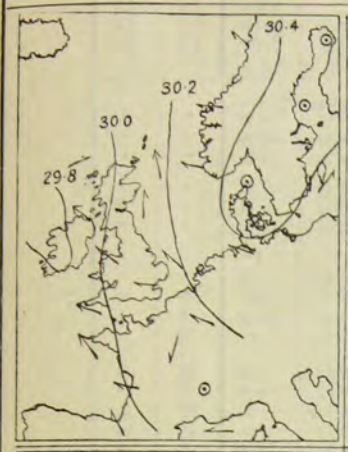
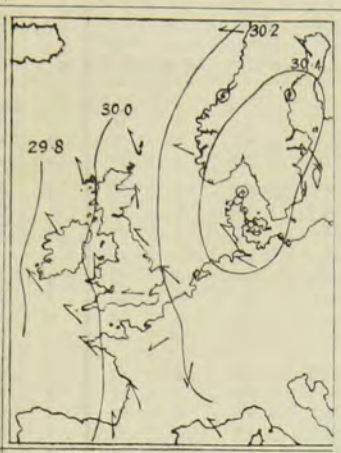
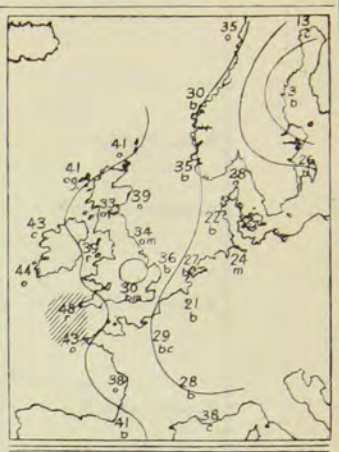
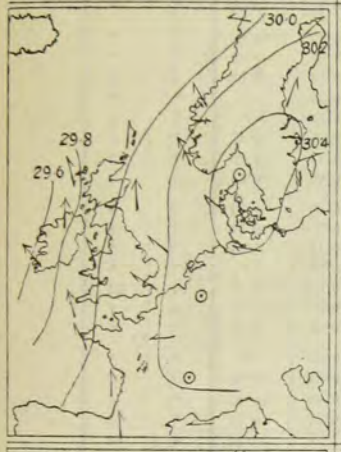
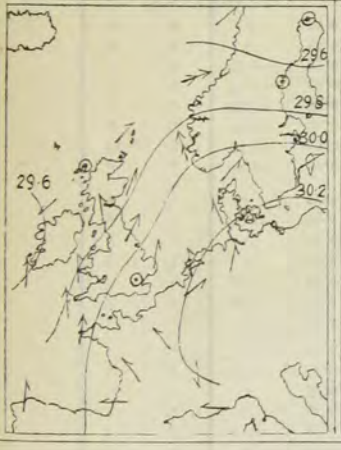
E 15898. 400.—1/85. Wt. 24. E. & S.

* These values have been entered in tenths of an inch instead of in inches and tenths; 23 should be 2·3 and so on. A similar mistake has been made in each of the Nos (1, 2, and 3) for the present year.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, January 20.** *Weather* fine in the north of Scotland, but cloudy or overcast elsewhere, with fog or mist over England and France. No important change later. *Temperature* fallen at all but the Irish stations; readings ranging from 45° at Valencia to 21° at Nairn. Maxima at Nairn, Loughborough, and Oxford only 32°. *Wind* fresh South-Westerly in the north of Scandinavia and calm at several of our eastern stations, but light or moderate South-Easterly elsewhere. *Sea* rough at Valencia, but moderate to smooth on other parts of our coasts. *Barometer* falling generally. Anticyclone lying over the south of Scandinavia and North Germany, with lowest pressures off the north-west of Norway and relatively low pressures to the westward of our Islands. Slight fall continuing all day.	
		**Wednesday, January 21.** *Weather* fine at our extreme south-eastern and the Continental stations, but overcast elsewhere, with mist in several places. A little rain falling on our south-west coasts later. *Temperature* fallen a little; readings ranging from 44° at Valencia to 11° at Nairn. Lowest maxima 28° at Nairn, 31° at Oxford, and 32° at Liverpool and in London. *Wind* Westerly in Sweden and the north of Norway, but South-Easterly or Easterly elsewhere; fresh in force on our west and south-west coasts. Subsequently increasing to strong breeze in the south of Ireland. *Sea* rough at Valencia; moderate to smooth elsewhere. *Barometer* falling at all but the Scandinavian stations. Distribution of pressure same as on previous day, but gradients for south-easterly winds over our Islands becoming rather more decided.	
		**Thursday, January 22.** *Weather* fine at several of our northern, eastern, and the Continental stations, but cloudy elsewhere, with rain at Scilly. *Temperature* risen at all but the central English stations; readings ranging from 50° at Valencia to 23° at Nairn and 21° at Loughborough. Lowest maxima 31° at Nairn and 32° at Loughborough. *Wind* Westerly in Sweden, but South-Easterly or Southerly elsewhere; strong to a gale in force in Ireland and the south-west of England. *Sea* rough in the extreme west and south-west as well as at Sumburgh Head. *Barometer* falling at all but the Scandinavian stations. Anticyclone lying over the southern parts of Scandinavia, with low pressure area off the south-west of Ireland. Slight rise taking place in our Islands later.	
		**Friday, January 23.** *Weather* foggy over central England, and dull at most of the western and south-western stations, but fine in the east. Rain falling later in the west and south-west. *Temperature* risen in most places; readings ranging from 49° at Valencia to 25° at Oxford and 24° at Nairn. Thermometer at Loughborough not exceeding 32° all day. *Wind* calm in the south of Scandinavia, but South-Easterly or Southerly elsewhere; fresh or strong in force in the west and north. *Sea* rough on our south west coasts as well as at Wick. *Barometer* rising at all but the western French stations, but general distribution of pressure same as on previous day. No important change later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, January 24.** *Weather* foggy over central England and fine at most of our eastern and the Continental stations, but dull in the west, with rain in several places. *Temperature* risen slightly; readings ranging from 48° at Scilly to 29° at Loughborough. *Wind* South-Easterly or Southerly; fresh or strong in force on our western and northern coasts. *Sea* rather rough on our west and south-west coasts. *Barometer* rising generally. Large high pressure area over Scandinavia, with shallow depression over west of Ireland. Depression disappearing later and barometer continuing to rise generally.	
		**Sunday, January 25.** *Weather* foggy or misty over England and rainy at some of the Irish stations, but fair or fine elsewhere. Rain falling later in the west and north generally. *Temperature* risen slightly in the west and north; readings ranging from 49° at Valencia and Scilly to 24° at Loughborough. Brisk rise taking place over England later. *Wind* South-Easterly or Southerly; strong in force at some of the western stations, with a fresh gale at Valencia. Moderate southerly gales occurring later on several parts of our western coasts. *Sea* rough in the south-west and extreme north. *Barometer* falling at all but the French stations. Anticyclone over Denmark and the south of Sweden, with depression moving northwards along our extreme western coasts.	
		**Monday, January 26.** *Weather* fine in the Netherlands, east of France, and extreme south-east of England, but cloudy or overcast elsewhere, with rain in several places. Rain extending to south-east of England later. *Temperature* risen several degrees over Great Britain; readings ranging from 50° at Valencia and Scilly, to 33° at Cambridge. *Wind* South-Westerly in Scandinavia, but Southerly or South Easterly in most parts of our Islands and France; strong in force on our south-west coasts. *Sea* rough in the south-west. *Barometer* falling generally. Pressure highest over Central Europe, with lowest readings in the north of Scandinavia, and relatively low readings off the west of Ireland. No important change later.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇒ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 13 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	45	35	42·9	37·6	40·4	+ 1·2	3	17	1	0·02	−0·78	*	*
	Stornoway	45	26	42·4	33·7	38·2	− 0·7	1	30	3	0·32	−0·30	3	6
	Wick	45	27	40·6	33·1	37·0	− 1·3	0	35	2	0·28	−0·15	*	*
1. SCOTLAND, E.	Nairn	45	11	36·3	20·7	28·8	− 8·8	0	92	1	0·21	−0·22	*	*
	Aberdeen	46	24	40·6	32·3	36·6	− 0·6	0	38	1	0·14	−0·41	1	2
	Leith	47	22	38·4	28·3	33·6	− 4·2	0	59	2	0·26	−0·16	*	*
2. ENGLAND, N.E.	Alnwick Castle	42	28	36·6	31·0	33·9	− 3·6	0	57	0	—	?	*	*
	Shields	42	27	37·9	31·1	34·6	− 3·8	0	52	2	0·26	−0·15	*	*
	Scarborough ⚓	43	30	38·1	32·5	35·4	− 2·5	0	46	2	0·06	−0·34	*	*
	York	41	27	37·4	29·6	33·7	− 4·5	0	58	3	0·08	−0·33	3	5
	Spurn Head	39	31	38·3	33·6	36·1	− 2·7	0	41	1	0·20	?	*	*
3. ENGLAND, E.	Hillington ⚓	40	26	36·9	27·9	32·6	− 4·4	0	66	3	0·18	−0·24	17	29
	Yarmouth	39	24	36·4	30·9	33·8	− 4·9	0	57	1	0·07	−0·43	*	*
	Geldeston	40	22	37·8	28·1	33·1	− 5·4	0	62	1	0·14§	−0·24	27	46
	Cambridge	44	23	37·7	26·0	32·1	− 5·7	0	69	1	0·18	−0·20	11	19
	Rothamsted	41	19	36·0	25·3	30·9	− 6·7	0	78	2	0·12§	−0·54	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	44	20	35·7	27·7	31·9	− 6·8	0	71	2	0·20	−0·20	*	*
	Loughborough	43	21	35·7	25·4	30·8	− 6·9	9	78	2	0·09	−0·38	*	*
	Leicester	43	23	36·3	27·9	32·3	− 4·9	0	68	2	0·14	−0·31	5	9
	Cheadle ⚓	43	23	33·8	27·6	30·8	− 6·0	0	78	2	0·15	?	*	*
	Churchstoke ⚓	50	25	36·6	30·2	33·5	− 4·7	0	60	3	0·32	?	0	0
	Hereford ⚓	46	26	37·6	30·0	34·0	− 4·6	0	56	3	0·17	−0·47	*	*
	Cirencester	45	24	36·0	28·9	32·6	− 5·9	0	66	4	0·47	−0·32	0	0
	Oxford	45	25	37·1	27·1	32·3	− 6·7	0	68	2	0·16	−0·51	5	8
5. ENGLAND, S.	London†	45	25	38·0	28·3	33·3	− 5·6	0	61	1	0·03	−0·50	2	3
	Marlborough ⚓	44	25	36·7	30·4	33·7	− 4·5	0	58	3	0·28	−0·53	2	3
	Strathfield Turgiss ⚓	47	22	38·0	28·2	35·3	− 5·2	0	61	2	0·14	−0·46	*	*
	Dungeness	42	28	39·4	31·3	35·5	− 4·7	0	46	1	0·01	?	*	*
	Hastings (St. Leonard's)	44	28	39·3	32·4	36·0	− 4·0	0	42	1	0·05§	−0·62	14	23
	Southampton	46	27	40·9	33·0	37·1	− 2·1	0	34	2	0·22	−0·65	4	7
	Hurst Castle	46	28	43·0	33·0	38·2	− 2·4	3	34	2	0·37	−0·38	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	48	30	42·9	35·7	39·4	+ 0·2	3	23	2	0·60	?	*	*
	Glasgow	46	25	38·9	31·0	35·1	− 3·4	0	48	3	0·36	−0·71	0	0
	Ardrossan	46	27	39·0	30·1	34·7	− 4·6	0	51	3	0·60	−0·45	*	*
	Silloth (Cumberland)	49	22	40·2	28·8	34·7	− 4·1	0	51	3	0·22	−0·58	8	14
	Douglas (Isle of Man)	47	32	39·2	35·2	37·3	− 3·1	0	33	4	1·21	−0·04	0	0
7. ENGLAND, N.W.	Newton Reigny (Penrith)	44	23	38·4	29·2	34·0	− 3·2	0	56	2	0·02	?	9	16
	Barrow-in-Furness	45	28	37·7	30·7	34·3	− 5·9	0	54	3	0·26	?	*	*
	Stonyhurst	45	23	38·7	28·0	33·6	− 4·9	0	59	2	0·20	−0·73	4	7
	Blackpool ⚓	46	26	37·2	29·4	33·5	− 6·9	0	60	3	0·39	−0·26	0	0
	Manchester	45	24	38·2	30·3	34·4	− 4·5	0	53	2	0·28	−0·38	*	*
	Liverpool Obsy (Bidston)	48	27	37·3	30·1	33·8	− 6·1	0	57	3	0·32	−0·01	*	*
	Llandudno ⚓	52	27	41·5	33·1	37·5	− 4·2	0	32	4	0·25	−0·40	7	12
	Holyhead	48	30	41·7	34·6	38·3	− 4·3	0	26	4	0·51	−0·29	*	*
8. ENGLAND, S.W.	Llandovery	51	26	42·0	34·1	38·2	− 1·8	0	27	4	0·34	?	*	*
	Pembroke	48	32	42·0	36·6	39·4	− 3·3	0	18	4	0·66	−0·22	1	2
	Arlington (N. Devon)	48	27	42·1	33·0	37·7	− 2·5	0	33	4	0·70	?	*	*
	Cullompton ⚓	48	30	42·6	35·5	39·2	− 2·0	2	24	4	0·60	?	1	2
	Falmouth	50	37	45·2	42·3	43·8	+ 0·6	13	0	3	0·74	−0·65	0	0
	Plymouth	50	34	45·5	38·9	42·3	− 0·4	15	9	4	0·70	−0·31	1	2
	Prawle Point	49	34	43·7	37·3	40·6	− 1·6	5	18	4	0·32	?	*	*
9. IRELAND, N.	Malin Head	50	32	44·6	35·7	40·3	+ 0·1	7	25	4	0·12	?	*	*
	Londonderry	52	33	44·4	37·2	40·9	+ 0·1	7	19	3	0·21	−0·71	*	*
	Mullaghmore	52	34	46·1	39·1	42·7	+ 0·4	17	8	3	0·36	?	*	*
	Belmullet	49	33	44·9	37·7	41·4	− 3·3	8	18	7	0·98	?	*	*
	Markree Castle	51	30	43·2	36·5	40·0	− 2·0	3	21	4	0·56	−0·23	3	5
	Brookeborough	51	33	42·7	37·0	40·0	− 0·2	2	19	3	0·42	?	*	*
	Armagh	52	33	43·6	36·7	40·3	+ 0·6	4	21	4	0·19	−0·51	2	4
	Donaghadee	49	29	42·7	35·9	39·4	− 1·2	2	23	2	0·33	−0·34	*	*
	Edgeworthstown	51	25	43·4	34·9	39·3	− 1·2	4	27	5	0·39	?	*	*
10. IRELAND, S.	Dublin	53	32	44·4	39·0	41·8	+ 1·0	7	13	4	0·23	−0·27	2	3
	Parsonstown	53	28	43·4	37·6	42·2	+ 2·1	20	12	2	0·12	−0·56	6	10
	Kilkenny	53	32	45·4	37·1	41·4	+ 1·7	10	21	5	0·71	?	*	*
	Waterford	52	34	46·7	39·6	43·3	+ 1·8	19	7	5	1·20	+0·10	*	*
	Roche's Point	51	39	48·3	41·7	45·1	+ 2·1	23	1	5	0·89	−0·35	*	*
	Valencia	53	41	50·6	43·6	47·2	+ 2·0	35	0	6	2·24	+0·69	7	12
	Killarney	53	33	49·6	41·3	45·6	+ 2·2	28	2	5	1·17	?	*	*
	Foynes	54	33	49·1	38·0	43·8	+ 2·4	29	11	6	0·49	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	40	48·0	41·7	45·0	− 1·2	22	1	6	0·75	−0·15	*	*
	Jersey (Noirmont)	45	25	40·1	33·1	36·7	− 5·5	0	37	1	0·28	−0·47	5	8

Stations marked ⚓ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Partly dew or fog.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 5.] *New Series.* WEEK ENDING MONDAY, 2ND FEBRUARY, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

DISTRICTS (See p. 20.)	Temperature of the Air.									
	Observed during the Week.					Above or below the Mean for the Week.	Accumulated.			
			Averages of				Above 42°		Below 42°	
	Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.		For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
	°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.										
0. SCOTLAND, NORTH	47	34	44·5	38·0	41·4	2 above.	7	12	17	142
1. SCOTLAND, EAST	53	31	45·0	36·5	40·9	3 above.	8	8	22	210
2. ENGLAND, N.E.	54	32	48·2	39·0	43·8	5 above.	25	25	8	174
3. ENGLAND, EAST	55	31	47·6	40·8	45·4	7 above.	29	29	3	221
4. MIDLAND COUNTIES	55	34	50·2	41·2	45·9	7 above.	31	32	2	222
5. ENGLAND, SOUTH	54	37	49·8	42·6	46·4	7 above.	31	37	0	178
Principal Grazing, &c. Districts.										
6. SCOTLAND, WEST	51	35	46·4	40·1	43·4	4 above.	18	23	5	151
7. ENGLAND, N.W.	55	32	48·3	40·7	44·7	4 above.	24	28	4	165
8. ENGLAND, S.W.	53	37	50·1	43·5	46·9	5 above.	34	57	0	129
9. IRELAND, NORTH	56	33	47·6	39·3	43·6	3 above.	23	55	8	125
10. IRELAND, SOUTH	54	34	49·2	40·6	45·1	3 above.	28	90	4	95
— CHANNEL ISLANDS	54	40	50·9	43·6	47·4	3 above.	38	76	0	74

DISTRICTS. (See p. 20.)	Rainfall.					Bright Sunshine.			
	For the Week.			Since Dec. 30/84.		Hours recorded.		Percentage of the possible Duration.	
	Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Number of Rainy Days.	Total Fall.	For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
		10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.									
0. SCOTLAND, NORTH	5	6	2 less.	20	2·9	6	20	11	8
1. SCOTLAND, EAST	6	4	1 less.	17	1·7	3	17	5	7
2. ENGLAND, N.E.	6	5	1 more.	18	1·6	3	6	5	2
3. ENGLAND, EAST	6	7	2 more.	21	2·2	6	30	10	14
4. MIDLAND COUNTIES	7	14	9 more.	21	2·6	4	18	7	6
5. ENGLAND, SOUTH	7	15	9 more.	18	2·8	4	23	6	8
Principal Grazing, &c. Districts.									
6. SCOTLAND, WEST	7	18	4 more.	20	4·3	3	26	5	10
7. ENGLAND, N.W.	7	13	6 more.	17	2·5	3	13	4	4
8. ENGLAND, S.W.	7	20	9 more.	22	4·3	5	33	8	12
9. IRELAND, NORTH	6	11	4 more.	22	3·2	17	54	28	20
10. IRELAND, SOUTH	7	17	7 more.	25	4·9	14	62	22	22
— CHANNEL ISLANDS	7	13	5 more.	24	3·6	10	46	16	15

General Remarks.

Weather has been in a very unsettled and rainy condition over the whole Kingdom. Densely clouded skies have been reported generally, but in most places, especially in the west and south-west, there have been a few brief intervals of warm sunshine. Thunder and lightning were experienced over our southern counties late on January 31st, and again at some of our western stations during the evening of February 2nd.

Temperature has been much higher than for many weeks past. Over eastern, southern, and central England it has exceeded the normal value by 7°, in Ireland 3°, and in Scotland from 2° to 4°. The maxima, which were recorded either on January 29th or February 2nd, varied from 54° to 56° over Ireland and the greater part of England, to 51° in "Scotland, W." and 47° in "Scotland, N." The minima, which were recorded at most stations on the first day of the period, ranged from 31° in "Scotland, E." and "England, E.", to 37° in "England, S." and "England, S.W.", and to 40° in the "Channel Islands".

Rainfall has been a little less than the mean in the north and east of Scotland, but more elsewhere, the excess over central and southern England being very considerable.

Bright sunshine values show a great deficiency in nearly all districts, the percentages of the possible duration varying from between 4 and 11 over Great Britain, to 22 in "Ireland, S." and 28 in "Ireland, N."

Depressions observed.—During the whole of this period the distribution of pressure over north-western Europe has been cyclonic, the barometer being highest over France, with depressions travelling northwards or north-north-eastwards along our western and north-western coasts. Some of these disturbances were unusually deep, the barometer in the centre of that of the 31st January showing a reading of about 28·3 ins. Strong Southerly to South-Westerly winds consequently prevailed over our Islands, and on several occasions, especially in the west, they reached the force of a moderate to strong gale.

E 15992. 400.—2/85. Wt. 24. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

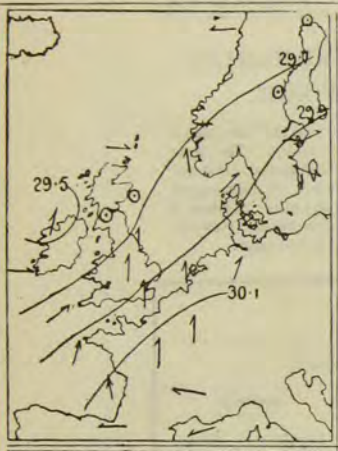
Weather

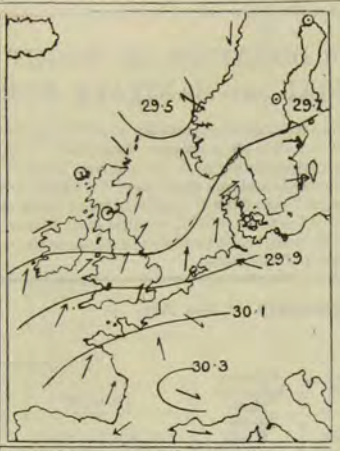
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Tuesday, January 27.

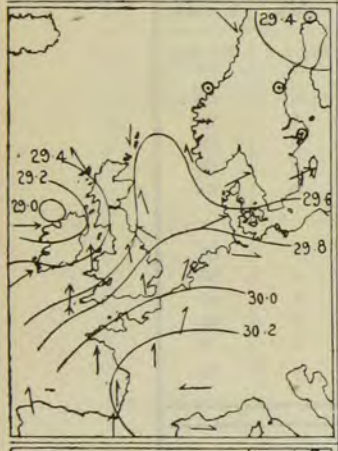
Weather fine in France, but foggy on our northern and eastern coasts and cloudy or overcast elsewhere, with rain at some of the western stations. Rain falling later in most parts of the United Kingdom.

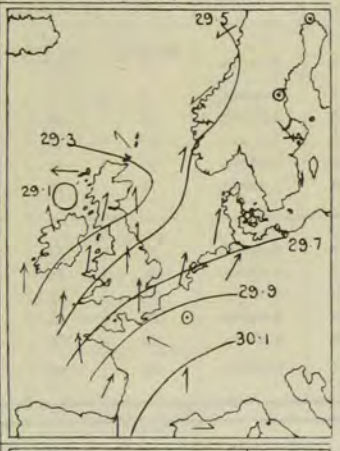
Temperature fallen a little in the west, but risen in the east; readings ranging from 48° at Scilly to 33° at Nairn.

Wind calm in Scotland and the north of Scandinavia, but Westerly in Ireland and Southerly or South-Westerly elsewhere; strong in force over the Channel and Bay of Biscay. Subsequently backing to South-West in Ireland.

Sea rough on our south-west coasts.

Barometer falling at all but our south-western stations. Pressure highest over Central France, with depression over the north-west of Ireland. Depression moving eastwards later, and barometer rising at all but western stations.





Wednesday, January 28.

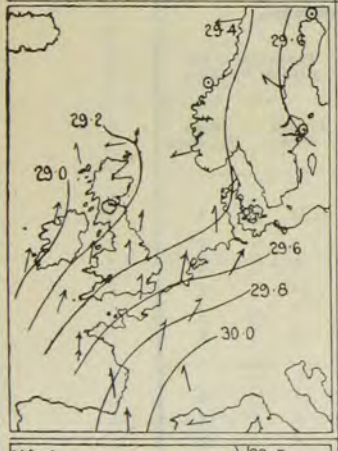
Weather fine in the south of France, but cloudy or overcast elsewhere, with rain at several of our western stations. Rain falling generally later.

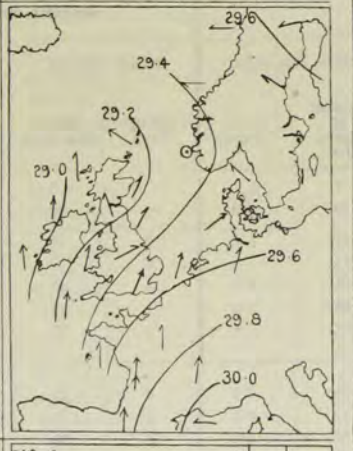
Temperature risen slightly; readings ranging from 51° at Scilly to 35° at Nairn.

Wind moderate South-Easterly in Scotland and South-Westerly in the east of England, but strong to a gale from South or South-West on our western and south-western coasts. Subsequently increasing to strong breeze in north and east.

Sea rather rough in west and south-west.

Barometer falling at all but our south-eastern stations. Pressure still highest Central France, with new and deep depression off the north-west of Ireland. Depression subsequently moving slowly north-eastwards, but pressure remaining very unsteady in west.





Thursday, January 29.

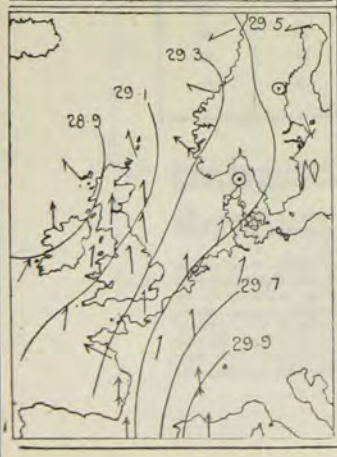
Weather fine at some of the Scotch stations, and also in the south-west of France, but cloudy or overcast elsewhere, with rain in many places. Aurora seen at Wick in evening.

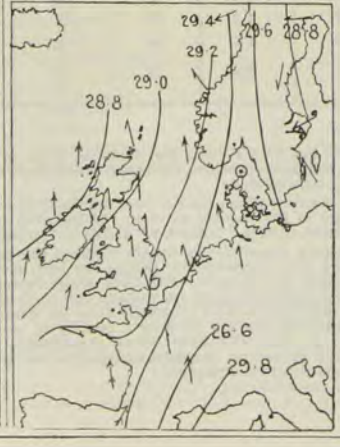
Temperature risen at all but the northern stations; readings ranging from 52° at Loughborough and Oxford to 32° at Nairn.

Wind light South-Easterly in Scandinavia and Scotland, but Southerly or South-Westerly elsewhere; strong to a gale in the west and south.

Sea high at the mouth of the Channel, rough in the west and south generally.

Barometer falling at all but the Swedish stations. Pressure highest south-east of France, with depression off west of Ireland. Depression moving northwards later, but barometer remaining unsteady in west.





Friday, January 30.

Weather fine in the north of Scandinavia and also at several of the Irish stations, but cloudy or overcast elsewhere, with rain over England. Showers falling in Ireland and Scotland later.

Temperature fallen over England and Ireland, risen elsewhere; readings ranging from 48° at several of the English stations to 40° at Parsonstown.

Wind South-Easterly in north, but Southerly or South-westerly elsewhere; strong on our western and southern coasts, but moderate in north and east.

Sea rough in the west and south, but moderate or slight elsewhere.

Barometer falling in our Islands and France, but rising in Scandinavia. Highest pressure still found over south-east of France, with large area of low readings off our extreme western coasts. No important change later.

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

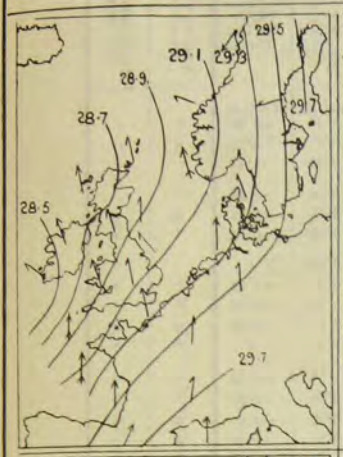
Weather

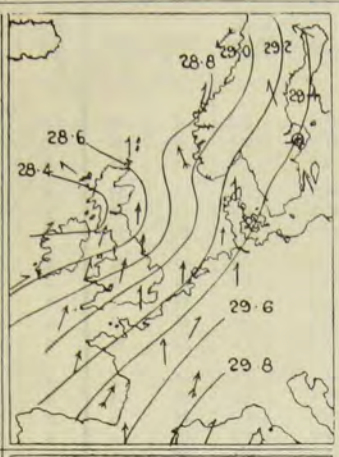
During the 24 hours succeeding 8 a.m. on the dates given.

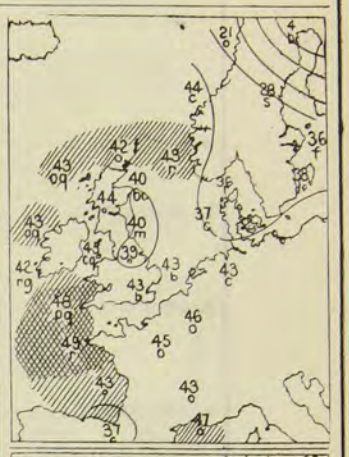
Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.







Saturday, January 31.

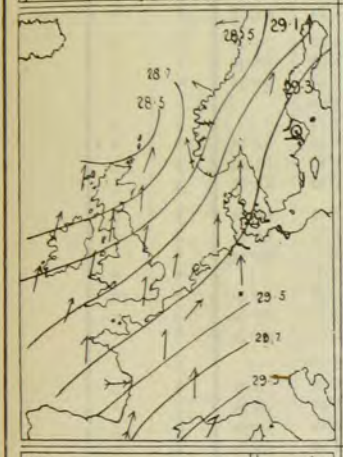
Weather fine in the north and east of our Islands, but cloudy or overcast elsewhere, with rain in the south-west. Rain falling later in all parts of Kingdom, and thunderstorms occurring over south of England in afternoon or evening.

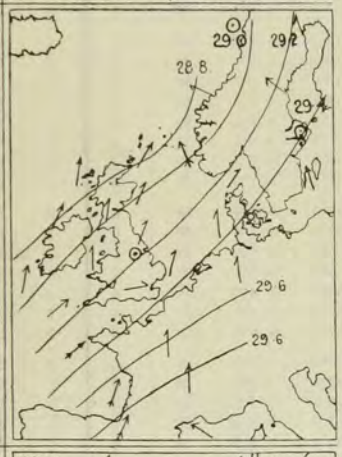
Temperature fallen a little; readings ranging from 48° at Scilly to 38° at Barrow-in-Furness.

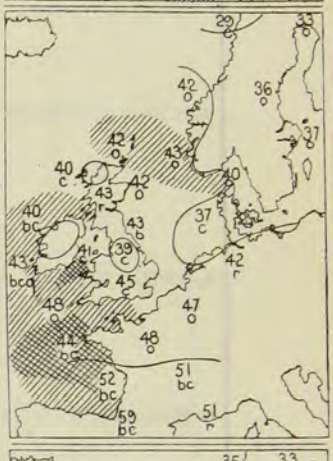
Wind generally Southerly; moderate on our east coasts, but strong to gale in West and South. Wind subsequently increasing to gale on exposed parts of our north and east coasts.

Sea high at the mouth of the Channel and rough on our western, southern, and extreme northern coasts generally.

Barometer falling generally—quickly in west. Deep depression moving northwards along the west coasts of Ireland and Scotland. Rise taking place in south-west later.







Sunday, February 1.

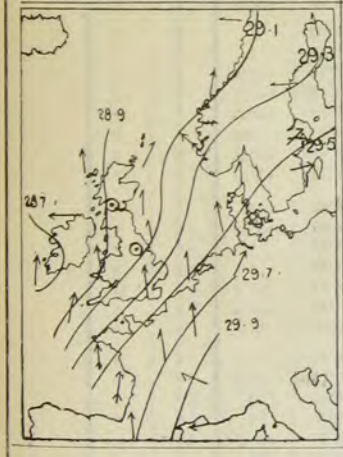
Weather fine in most parts of our Islands and France, but dull in Scandinavia. Showers falling later in many places and lightning occurring at Valencia at night.

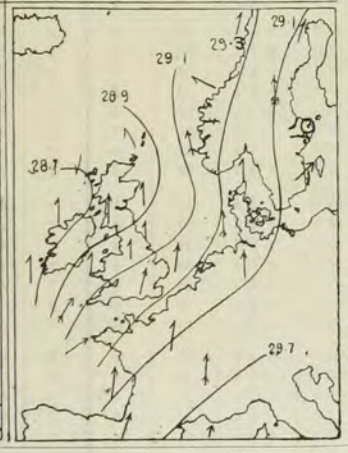
Temperature changed little and irregularly; readings ranging from 48° at Scilly to 36° at Parsonstown.

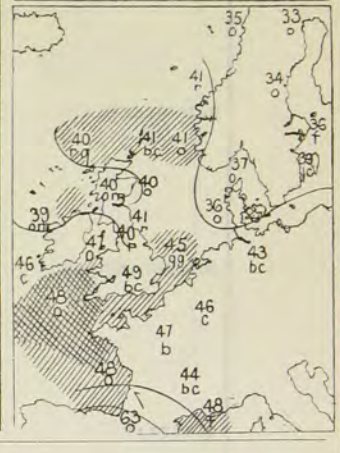
Wind South-Easterly or Southerly in Scandinavia, but South-Westerly elsewhere; moderate or fresh in force generally. Subsequently increasing to strong breeze or moderate gale on our western and southern coasts.

Sea high in the south-west, rough in the west and south generally.

Barometer rising at all but the extreme northern stations. Depression of previous day passing away to the northward of Scotland and readings now highest in the south of France. Slight fall taking place in west of Ireland later.







Monday, February 2.

Weather fine in the east of France, but cloudy in most other localities, with rain in the north-east of England. Rain falling later in all parts of the kingdom, and thunderstorms occurring in evening at some of our western stations.

Temperature fallen in north, but risen in south; readings ranging from 51° at Prawle Point to 37° at Nairn.

Wind moderate South-Easterly in north and east, but strong to gale from south or south-west in the south-west and south.

Sea high at the mouth of the Channel, rough in the west, south, and extreme north generally.

Barometer rising in Scotland, and also on the eastern shores of the North Sea, but falling elsewhere. New depression moving northwards along our extreme western coasts. Rise taking place in south-west later.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇉ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 17 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	45	35	44·4	38·1	41·4	+ 2·2	7	16	5	0·76	−0·06	*	*
	Stornoway	47	36	45·1	38·4	41·9	+ 2·8	9	16	6	0·88	−0·22	6	11
	Wick	46	34	44·0	37·4	40·8	+ 2·2	6	18	5	0·26	−0·19	*	*
1. SCOTLAND, E.	Nairn	47	31	43·9	34·1	39·2	+ 1·1	5	30	5	0·18	−0·22	*	*
	Aberdeen	47	36	44·4	37·6	41·1	+ 3·4	7	18	7	0·71	+0·13	3	5
	Leith	53	36	46·7	37·7	42·4	+ 4·2	21	12	6	0·36	−0·06	*	*
2. ENGLAND, N.E.	Alnwick Castle	50	32	45·6	36·7	41·3	+ 3·3	10	22	5	0·43	?	*	*
	Shields	53	35	48·6	38·9	43·9	+ 5·2	26	9	5	0·19	−0·23	*	*
	Scarborough ℜ	53	38	48·9	41·4	45·3	+ 7·1	26	2	7	0·63	+0·22	*	*
	York	54	34	50·3	39·4	45·1	+ 6·6	33	7	6	0·78	+0·36	3	5
	Spurn Head	52	34	47·6	38·4	43·2	+ 4·0	24	10	6	0·64	?	*	*
3. ENGLAND, E.	Hillington ℜ	54	38	50·2	41·6	46·1	+ 8·3	30	1	7	0·51	+0·06	4	7
	Yarmouth	50	34	47·4	39·0	43·4	+ 4·0	22	8	6	0·30	−0·20	*	*
	Geldeston	53	36	48·3	41·0	44·8	+ 5·6	24	3	5	0·30	−0·10	9	15
	Cambridge	55	31	51·3	39·3	45·5	+ 6·8	36	8	6	0·50	+0·10	5	8
	Rothamsted	53	39	50·7	42·9	47·0	+ 8·8	35	0	6	1·74	+1·12	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	55	37	51·0	40·0	45·7	+ 6·3	34	6	7	0·70	+0·30	*	*
	Loughborough	54	36	51·1	41·0	46·2	+ 7·7	34	3	7	1·05	+0·38	*	*
	Leicester	54	38	51·0	42·5	46·9	+ 8·9	34	0	7	0·83	+0·38	4	7
	Cheadle ℜ	50	35	48·3	39·6	44·1	+ 6·3	25	7	7	1·02	?	*	*
	Churchstoke ℜ	53	37	49·0	41·2	45·3	+ 6·1	26	2	7	2·15	?	5	8
	Hereford ℜ	52	37	50·5	41·8	46·3	+ 6·7	31	1	7	2·46	+1·86	*	*
	Cirencester	51	34	49·6	40·7	45·3	+ 6·3	29	4	7	1·75	+1·00	4	7
	Oxford	52	39	50·9	43·1	47·2	+ 7·6	36	0	7	1·08	+0·55	3	5
5. ENGLAND, S.	London†	54	37	51·6	42·9	47·4	+ 7·8	38	0	7	0·81	+0·30	2	3
	Marlborough ℜ	50	39	49·0	42·5	45·9	+ 7·2	27	0	7	1·88	+1·13	3	5
	Strathfield Turgiss ℜ	54	40	51·5	41·6	46·7	+ 7·5	35	1	7	2·04	+1·48	*	*
	Dungeness	50	37	47·4	41·3	44·5	+ 3·9	20	2	6	1·00	?	*	*
	Hastings (St. Leonard's)	49	40	47·3	42·5	45·0	+ 4·5	21	0	6	1·09	+0·49	6	10
	Southampton	53	41	50·9	44·0	47·6	+ 8·1	39	0	7	2·18	+1·38	3	5
	Hurst Castle	52	41	51·0	43·6	47·5	+ 6·3	39	0	7	1·64	+0·94	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	51	38	46·6	40·0	43·4	+ 3·9	18	6	7	3·16	?	*	*
	Glasgow	49	36	45·6	38·8	42·3	+ 3·6	16	9	7	1·02	−0·01	2	3
	Ardrossan	48	35	45·4	39·7	42·7	+ 3·2	15	6	7	1·06	+0·09	*	*
	Silloth (Cumberland)	51	37	47·7	39·6	43·8	+ 4·6	23	7	7	1·49	+0·76	3	5
	Douglas (Isle of Man)	48	39	46·8	42·4	44·7	+ 4·0	19	0	7	2·03	+0·88	5	8
7. ENGLAND, N.W.	Newton Reigny (Penrith)	50	37	46·6	39·1	43·0	+ 5·3	19	8	7	1·63	?	3	5
	Barrow-in-Furness	48	35	45·4	38·9	42·3	+ 1·7	15	9	7	0·83	?	*	*
	Stonyhurst	52	32	48·5	38·8	43·8	+ 4·7	26	9	7	2·14	+1·19	2	3
	Blackpool ℜ	52	36	47·9	39·6	43·9	+ 3·1	23	7	7	1·19	+0·57	2	3
	Manchester	53	38	49·4	41·4	45·6	+ 6·2	28	2	6	1·30	+0·65	*	*
	Liverpool Obsy (Bidston)	54	37	50·3	41·4	46·0	+ 5·5	31	2	7	0·70	+0·20	*	*
	Llandudno ℜ	55	40	50·6	43·0	47·0	+ 4·8	35	0	7	0·71	+0·06	3	5
	Holyhead	49	40	47·9	43·6	45·9	+ 3·0	27	0	7	1·76	+1·01	*	*
8. ENGLAND, S.W.	Llandovery	53	37	50·4	41·7	46·2	+ 5·6	31	1	7	3·42	?	*	*
	Pembroke	49	40	47·6	44·0	45·9	+ 2·9	27	0	6	2·20	+1·40	5	8
	Arlington (N. Devon)	51	37	49·7	42·0	46·0	+ 5·5	28	0	7	1·54	?	*	*
	Cullompton ℜ	52	40	51·1	43·4	47·4	+ 6·0	38	0	7	1·89	?	5	8
	Falmouth	53	42	50·4	45·6	48·1	+ 4·5	43	0	7	2·44	+1·17	6	10
	Plymouth	53	43	51·6	45·8	48·8	+ 5·6	48	0	6	1·41	+0·44	3	5
	Prawle Point	52	40	50·1	41·9	46·2	+ 3·5	30	0	6	0·73	?	*	*
9. IRELAND, N.	Malin Head	52	38	48·3	40·6	44·6	+ 4·2	24	4	5	0·57	?	*	*
	Londonderry	53	34	48·3	39·1	43·9	+ 3·1	25	8	5	0·73	−0·12	*	*
	Mullaghmore	52	37	47·3	40·4	44·0	+ 2·1	21	4	6	0·94	?	*	*
	Belmullet	48	37	45·9	39·7	42·9	− 1·4	16	6	7	2·53	?	*	*
	Markree Castle	50	34	46·4	37·6	42·2	+ 0·8	20	12	7	1·23	+0·47	17	28
	Brookeborough	52	34	46·9	38·6	42·9	+ 2·8	21	10	7	1·16	?	*	*
	Armagh	56	35	50·3	39·2	45·0	+ 4·9	33	8	7	0·99	+0·32	16	27
	Donaghadee	51	36	47·3	40·4	44·0	+ 3·2	21	4	7	1·06	+0·41	*	*
	Edgeworthstown	51	33	47·9	37·9	43·1	+ 2·4	25	11	7	1·00	?	*	*
10. IRELAND, S.	Dublin	54	39	49·7	42·8	46·4	+ 5·2	31	0	7	0·51	−0·01	19	31
	Parsonstown	53	35	49·1	38·7	44·1	+ 3·4	29	9	7	0·91	+0·29	16	26
	Kilkenny	54	34	50·1	39·4	45·0	+ 4·8	32	7	7	1·17	?	*	*
	Waterford	52	37	49·3	41·5	45·6	+ 3·4	27	1	7	1·98	+0·93	*	*
	Roche's Point	53	38	49·7	42·4	46·2	+ 2·7	29	0	7	2·12	+0·94	*	*
	Valencia	53	37	49·9	41·7	46·0	+ 0·7	29	1	7	2·54	+1·14	6	10
	Killarney	53	35	48·5	40·7	44·8	+ 1·2	25	4	7	3·32	?	*	*
	Foynes	51	34	47·1	37·9	42·7	+ 1·2	22	11	7	0·92	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	42	51·3	44·3	47·9	+ 1·7	41	0	7	1·59	+0·76	*	*
	Jersey (Noirmont)	52	40	50·4	42·9	46·8	+ 4·6	34	0	6	1·02	+0·32	10	16

Stations marked ℜ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 6.] *New Series.* WEEK ENDING MONDAY, 9TH FEBRUARY, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 24.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	45	30	43·4	35·3	39·4	1 above.	4	16	25	167
	1. SCOTLAND, EAST	53	31	44·1	34·8	39·5	1 above.	6	14	27	237
	2. ENGLAND, N.E.	53	29	44·9	35·0	40·0	1 above.	8	33	27	201
	3. ENGLAND, EAST	51	30	47·2	35·2	41·2	2 above.	15	44	27	248
	4. MIDLAND COUNTIES	53	30	46·8	35·5	41·2	2 above.	13	45	26	248
	5. ENGLAND, SOUTH	53	31	48·1	38·3	43·2	3 above.	24	61	10	188
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	50	32	45·2	36·2	40·7	1 above.	9	32	23	174
	7. ENGLAND, N.W.	55	31	46·0	36·4	41·2	1 above.	11	39	22	187
	8. ENGLAND, S.W.	52	29	48·1	38·2	43·2	1 above.	24	81	11	140
	9. IRELAND, NORTH	52	25	45·7	34·3	40·0	1 below.	10	65	30	155
	10. IRELAND, SOUTH †	54	29	48·0	36·0	42·0	1 below.	17	107	17	112
	— CHANNEL ISLANDS	52	40	48·9	41·9	45·4	1 above.	24	100	0	74

	DISTRICTS. (See p. 24.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	12	4 more.	26	4·1	13	33	22	11
	1. SCOTLAND, EAST	5	12	7 more.	22	2·9	7	24	12	8
	2. ENGLAND, N.E.	5	6	2 more.	23	2·2	3	9	5	2
	3. ENGLAND, EAST	5	5	0 (average).	26	2·7	19	58	29	17
	4. MIDLAND COUNTIES	5	7	2 more.	26	3·3	14	32	21	9
	5. ENGLAND, SOUTH	6	8	2 more.	24	3·6	18	41	27	12
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	7	17	3 more.	27	6·0	9	35	15	11
	7. ENGLAND, N.W.	6	11	5 more.	23	3·6	8	21	12	6
	8. ENGLAND, S.W.	6	11	1 more.	28	5·2 *	17	50	27	14
	9. IRELAND, NORTH	6	12	5 more.	28	4·4	11	65	18	19
	10. IRELAND, SOUTH †	7	19	10 more.	32	6·8	20	82	32	24
	— CHANNEL ISLANDS	7	9	2 more.	31	4·5	23	69	34	19

General Remarks.

Weather has continued in an unsettled condition with a good deal of rain in nearly all parts of the Kingdom. The intervals of clear sky, however, have been more decided and frequent than for many weeks past.

Temperature has been 1° below its normal value over Ireland, but in all other districts an excess varying from 1° to 3° is shown. The maxima, which were generally registered on the 7th or 8th, ranged from 45° in "Scotland, N." to 50° in "Scotland, W." and to 55° in "England, N.W." The minima were recorded at most stations on the 5th, when the thermometer fell to 25° in "Ireland, N." and to between 29° and 32° in almost all other districts; in the "Channel Islands", however, the lowest reading was 40°.

Rainfall has about equalled the mean in "England, E." but in all other districts there has been an excess, that in "Scotland, E.", "England, N.W.", and over Ireland being large.

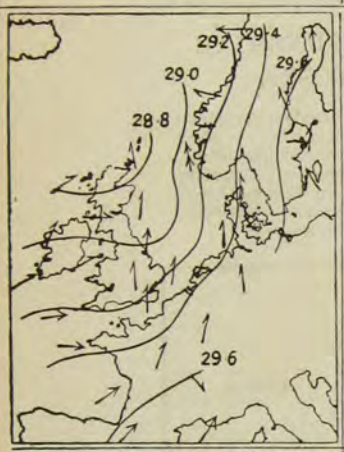
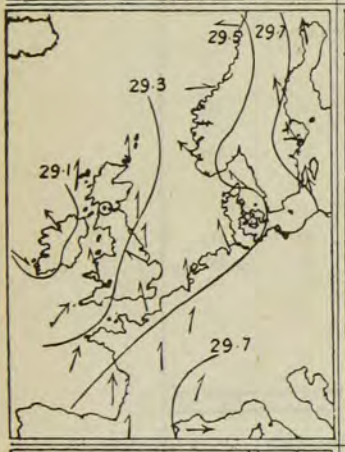
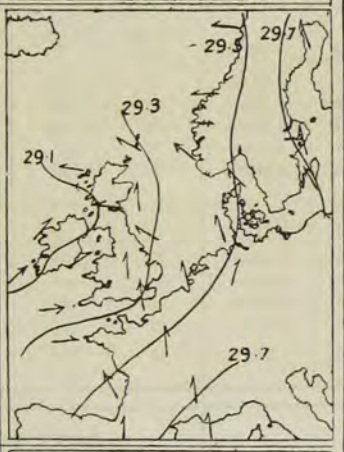
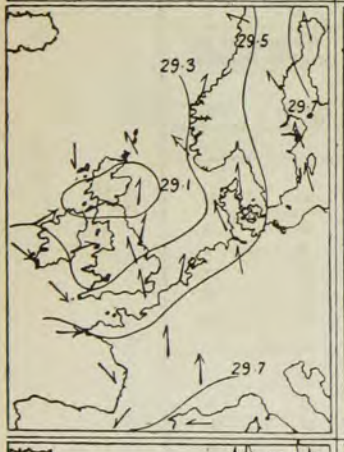
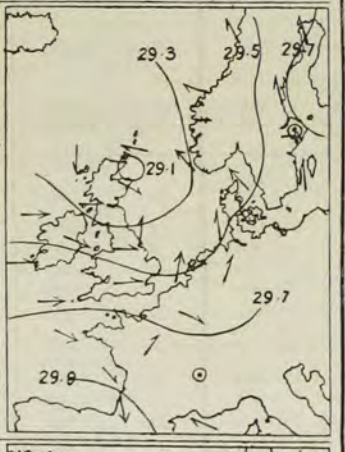
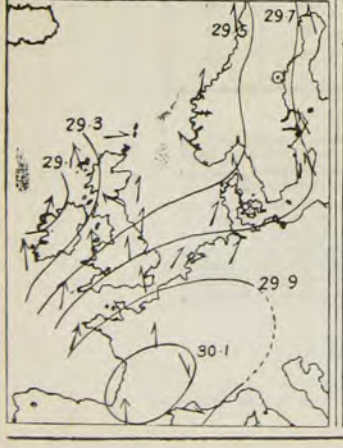
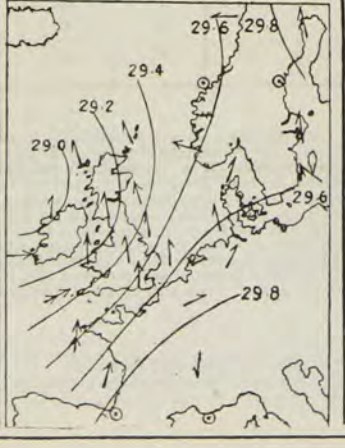
Bright sunshine values show a considerable increase, though they are still rather low. The percentages of the possible duration varied from 34 in the "Channel Islands.", 32 in "Ireland, S.", and 29 in "England, E.", to 12 in "Scotland, E." and "England, N.W." and to 5 in "England, N.E."

Depressions observed.—The distribution of barometric pressure over our Islands has again been cyclonic, readings being highest over France and relatively high over Sweden, while depressions have continued to travel in a north-north-easterly direction over our western and north-western coasts, and some subsidiary disturbances in a similar direction further southwards. Fresh or strong winds between South and West have consequently prevailed very generally, and at times have attained the force of a fresh or strong gale.

* This value has been altered slightly owing to some errors in the Reports from Pembroke and Falmouth.
† The accumulated values in this district are liable to alteration owing to the non-arrival of the Return from Foynes.

E 16096. 400.—2/85. Wt. 24. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

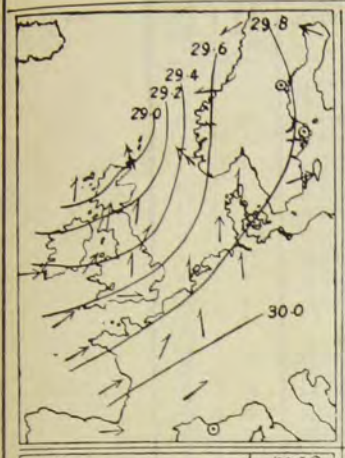
Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, February 3.** *Weather* fine in Ireland and the east of England, but cloudy or overcast elsewhere, with rain in several places. Showers falling later in most parts of the Kingdom. *Temperature* fallen a few degrees over England; readings ranging from 48° at Scilly to 34° at Parsonstown. *Wind* South-Easterly in Scandinavia, but South-Westerly or Southerly elsewhere; fresh to strong in force on all but our western coasts, where moderate. Subsequently falling light or moderate on all coasts. *Sea* high in the south-west, rough in the Channel and Bay of Biscay. *Barometer* rising in most places. Readings relatively high over Sweden and the south of France, with large depression off the north of Scotland. Rise continuing all day.	
		**Wednesday, February 4.** *Weather* showery at several of our western stations, but fair in most other localities, with, however, fog or mist in the east. Rain falling later in most places, with thunder and lightning at Valencia in evening. *Temperature* fallen a few degrees; readings ranging from 44° at Scilly and Hurst Castle to 33° at Nairn, Shields, York, and Loughborough. *Wind* generally Southerly; inclining to South-East in north and to South-West in south. Moderate or fresh in force in most places. *Sea* rather rough on our south-west coasts as well as at Skudesnaes. *Barometer* rising at all but our western and south-western stations. Large but shallow depression lying over west of Ireland. Fall taking place later in all parts of our Islands and France.	
		**Thursday, February 5.** *Weather* changeable and showery, with snow at York and some of the Swedish stations. Aurora seen in Scotland and the north of Ireland at night. *Temperature* changed irregularly; readings ranging from 47° at Scilly to 33° at York and 32° at Donaghadee. Frost in Scotland at night. *Wind* South-Easterly in Scandinavia and the north of Scotland, and South-Westerly in England, but Westerly in Ireland and the west of France; strong in force at some of our southern stations. Subsequently veering to West at the English stations. *Sea* rough in the south-west. *Barometer* rising over France and the west and south of our Islands, but falling elsewhere. Shallow depression of previous day lying over Scotland in morning, but subsequently moving slowly north-eastwards. Rise taking place generally later.	
		**Friday, February 6.** *Weather* fair at our eastern and many of the Continental stations, but dull and rainy in the west. Cloud and rain subsequently extending to all parts of our Islands, and lightning occurring at Roche's Point at night. *Temperature* risen a little; readings ranging from 50° at Scilly to 32° at Aberdeen. *Wind* South-Easterly in the north, but Southerly or South-Westerly elsewhere; strong in force on our west and south-west coasts. Subsequently increasing to a fresh gale over the Channel. *Sea* rough in the west and south-west. *Barometer* falling briskly on our western coasts, but rising elsewhere. Definite anticyclone lying over the south of France, and centre of rather deep depression off the north-west of Ireland. Depression subsequently moving northwards, but new disturbance approaching south Ireland, and barometer falling generally.	

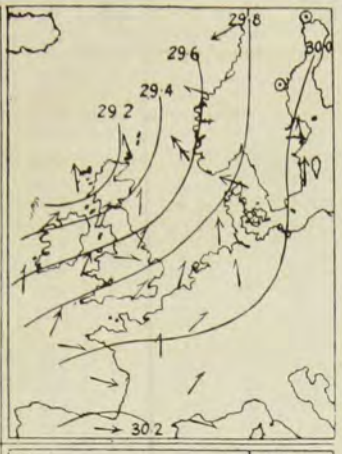
SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m.	6 p.m.	Weather	Synoptic Charts.
		During the 24 hours succeeding 8 a.m. on the dates given.	TEMPERATURE AND WEATHER at 8 a.m.





Saturday, February 7.

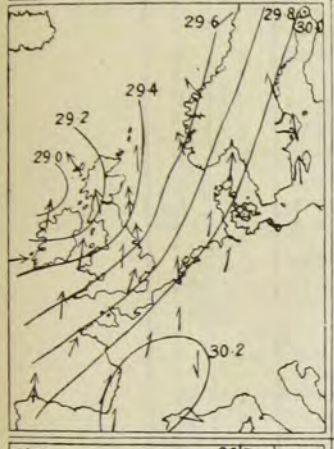
Weather fine in most places, but showers falling locally.

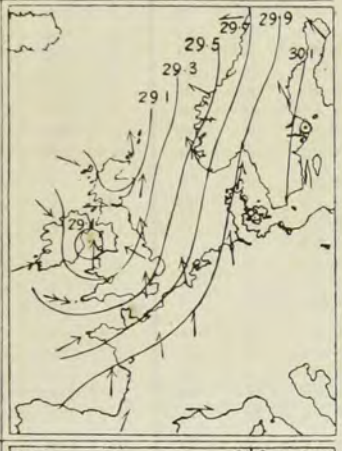
Temperature fallen a little in the west and south-west, but risen in the east; readings ranging from 47° at Scilly to 37° at Nairn.

Wind South-Easterly in Scandinavia, but Southerly or South-Westerly elsewhere; moderate or fresh in force generally.

Sea rough on many parts of our western and southern coasts.

Barometer rising at all but our northern stations. Readings highest in the south of France, and relatively high in Scandinavia, with large area of low pressure off the north-west of Scotland. Slight fall setting in at Valencia in evening.





Sunday, February 8.

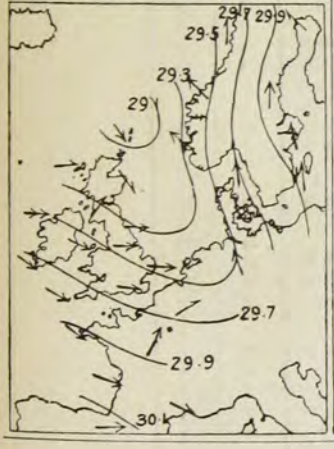
Weather cloudy or overcast generally, with rain in many parts of Great Britain, and fog at several of the Continental stations. Lightning seen at Mullaghmore in evening.

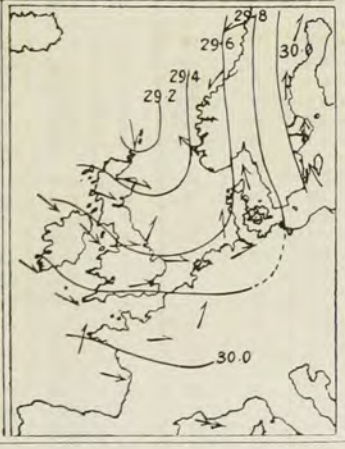
Temperature risen a few degrees; readings ranging from 51° at Scilly to 38° at Nairn.

Wind South-Easterly in Scotland and Norway, but Southerly or South-Westerly elsewhere; strong to a gale on our western and northern coasts. Subsequently increasing to a gale in the east and south of England.

Sea rough on our western and southern coasts.

Barometer falling in west and south, rising elsewhere. Deep depression lying off north-west of Ireland. Depression subsequently moving northwards, but subsidiary disturbance travelling over northern England in evening.





Monday, February 9.

Weather fine at most of the English and Irish stations, but cloudy or overcast elsewhere, with showers in many places.

Temperature fallen several degrees; readings ranging from 47° at Scilly to 32° at Stornoway.

Wind South-Easterly in Scandinavia and Denmark, but Westerly in our islands and France; strong in force in many places. Subsequently veering to North-West in our western and northern coasts.

Sea rough in the west and south.

Barometer falling on the eastern shores of the North Sea, but rising elsewhere. Depression lying near the Shetlands, and subsidiary disturbance over the North Sea. Both dispersing later, and barometer continuing to rise on all but our south-west coasts.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 21 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	45	34	43·7	36·4	40·1	+ 1·1	5	21	6	1·80	+1·00	*	*
	Stornoway	45	30	43·4	33·6	38·5	− 0·5	4	30	6	1·16	+0·12	13	22
	Wick	45	30	43·1	35·9	39·5	+ 0·8	3	22	6	0·60	+0·11	*	*
1. SCOTLAND, E.	Nairn	53	32	43·9	34·0	39·0	+ 0·6	5	30	5	0·59	+0·19	*	*
	Aberdeen	48	31	43·4	34·3	38·9	+ 0·9	4	28	5	2·11	+1·52	7	12
	Leith	53	32	44·9	36·0	40·5	+ 1·9	8	23	4	0·85	+0·45	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	29	43·0	32·9	38·0	− 0·3	3	33	4	0·75	?	*	*
	Shields	53	31	45·6	34·6	40·1	+ 1·1	10	28	3	0·45	+0·03	*	*
	Scarborough ℔	51	33	45·4	36·5	41·0	+ 2·6	10	22	5	0·90	+0·48	*	*
	York	52	33	46·1	35·4	40·8	+ 1·8	11	26	7	0·54	+0·11	3	5
	Spurn Head	48	32	44·3	35·7	40·0	+ 1·0	6	24	5	0·36	?	*	*
3. ENGLAND, E.	Hillington ℔	50	30	47·6	35·4	41·5	+ 3·0	16	27	4	0·33	−0·14	17	27
	Yarmouth	49	33	45·1	35·4	40·3	+ 0·5	9	26	6	0·26	−0·25	*	*
	Geldeston	50	33	47·6	36·2	41·9	+ 1·9	16	24	4	0·35	−0·08	22	34
	Cambridge	51	30	48·1	34·6	41·4	+ 1·9	17	31	6	0·49	+0·10	17	27
	Rothamsted	50	31	47·6	34·6	41·1	+ 2·1	16	30	7	0·81	+0·33	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	53	30	46·7	34·7	40·7	+ 0·9	13	29	6	0·36	−0·04	*	*
	Loughborough	51	31	47·4	36·6	42·0	+ 3·0	15	15	4	0·42	−0·03	*	*
	Leicester	51	32	47·6	36·2	41·9	+ 3·2	16	24	5	0·53	+0·08	11	17
	Cheadle ℔	49	30	46·0	33·2	39·6	+ 1·0	11	34	7	0·85	?	*	*
	Churchstoke ℔	51	33	46·0	35·2	40·6	+ 0·5	11	27	6	1·37	?	14	22
	Hereford ℔	51	31	47·2	36·2	41·7	+ 1·5	15	24	5	0·87	+0·32	*	*
	Cirencester	49	30	45·7	34·7	40·2	+ 0·8	10	28	5	0·87	+0·17	15	23
	Oxford	51	33	48·0	37·1	42·6	+ 2·5	25	14	4	0·67	+0·17	15	23
5. ENGLAND, S.	London†	53	33	49·1	38·1	43·6	+ 3·3	28	11	5	0·51	+0·02	13	20
	Marlborough ℔	50	32	45·9	35·9	40·9	+ 1·9	11	24	6	1·42	+0·72	13	20
	Strathfield Turgiss ℔	51	31	48·4	35·4	41·9	+ 1·8	18	23	6	0·77	+0·23	*	*
	Dungeness	50	37	47·9	41·6	44·8	+ 3·8	21	1	5	0·62	?	*	*
	Hastings (St. Leonard's)	49	35	47·0	39·5	43·3	+ 2·4	20	7	6	0·51	−0·05	25	38
	Southampton	53	32	49·5	36·9	43·2	+ 2·7	30	14	6	0·89	+0·16	19	29
	Hurst Castle	50	37	48·6	40·4	44·5	+ 2·6	24	4	7	0·79	+0·11	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	49	33	44·3	35·7	40·0	+ 0·5	6	24	6	3·49	?	*	*
	Glasgow	50	35	45·0	35·9	40·5	+ 1·6	8	24	7	0·83	−0·18	4	7
	Ardrossan	48	33	45·0	36·0	40·5	+ 1·0	8	23	7	1·14	+0·24	*	*
	Silloth (Cumberland)	50	33	45·9	36·5	41·2	+ 1·5	11	22	7	1·50	+0·80	7	11
	Douglas (Isle of Man)	49	32	45·8	36·8	41·3	+ 0·4	11	21	7	1·57	+0·48	17	27
7. ENGLAND, N.W.	Newton Reigny (Penrith)	48	31	45·2	34·7	40·0	+ 2·0	9	28	7	1·76	?	6	10
	Barrow-in-Furness	48	33	44·4	36·6	40·5	− 0·3	7	21	5	1·42	?	*	*
	Stonyhurst	51	33	46·7	35·7	41·2	+ 2·0	13	25	6	0·74	−0·21	4	6
	Blackpool ℔	50	31	45·1	36·1	40·6	− 0·4	9	23	6	1·14	+0·53	8	13
	Manchester	50	31	46·1	35·0	40·6	+ 0·8	11	28	6	0·97	+0·35	*	*
	Liverpool Obsr (Bidston)	52	33	46·1	36·7	41·4	+ 0·4	11	21	6	0·74	+0·26	*	*
	Llandudno ℔	55	32	48·3	37·0	42·7	+ 0·7	26	14	5	0·69	+0·04	12	19
	Holyhead	48	37	46·4	39·3	42·9	− 0·1	18	8	6	1·56	+0·86	*	*
8. ENGLAND, S.W.	Llandovery	51	29	48·1	34·4	41·3	+ 0·2	17	31	6	1·47	?	*	*
	Pembroke	48	37	47·0	41·1	44·1	+ 1·1	18	3	6	1·34	+0·56	24	38
	Arlington (N. Devon)	49	32	46·4	36·7	41·6	+ 0·6	12	22	7	0·89	?	*	*
	Cullompton ℔	52	31	48·6	36·7	42·7	+ 0·9	27	15	7	1·20	?	14	22
	Falmouth	52	37	48·9	39·7	44·3	+ 0·5	26	6	7	1·19	−0·01	15	23
	Plymouth	52	34	49·7	40·0	44·9	+ 1·7	29	6	5	0·88	−0·07	15	23
	Prawle Point	50	37	48·3	38·9	43·6	+ 0·6	24	9	7	0·81	?	*	*
9. IRELAND, N.	Malin Head	49	34	45·6	36·3	41·0	+ 0·7	10	23	6	0·61	?	*	*
	Londonderry	52	31	46·4	34·4	40·4	− 0·2	12	30	7	1·05	+0·27	*	*
	Mullaghmore	52	35	46·4	37·9	42·2	+ 0·9	19	11	7	0·92	?	*	*
	Belmullet	48	35	44·9	37·9	41·4	− 2·5	8	16	7	1·33	?	*	*
	Markree Castle	51	27	44·5	31·9	38·2	− 2·6	7	37	6	0·93	+0·18	9	14
	Brookeborough	50	25	44·8	32·1	38·5	− 1·3	8	37	5	1·88	?	*	*
	Armagh	50	27	45·7	32·7	39·2	− 1·1	10	35	7	1·45	+0·80	13	21
	Donaghadee	50	29	46·3	33·3	39·8	− 1·0	12	33	6	1·00	+0·38	*	*
	Edgeworthstown	52	29	46·6	32·6	39·6	− 1·0	13	36	6	1·53	?	*	*
10. IRELAND, S.	Dublin	54	35	47·7	35·9	41·8	+ 0·3	16	25	7	0·86	+0·30	24	38
	Parsonstown	52	32	46·9	34·1	40·5	0·0	14	31	7	1·22	+0·63	21	33
	Kilkenny	52	29	47·8	32·6	40·2	− 0·4	16	37	7	1·68	?	*	*
	Waterford	50	31	48·1	35·6	41·9	− 1·1	17	27	7	1·98	+1·00	*	*
	Roche's Point	51	36	48·7	38·9	43·8	+ 0·1	26	9	7	2·45	+1·35	*	*
	Valencia	53	33	49·6	38·7	44·2	− 1·1	29	9	7	2·35	+1·08	16	25
	Killarney	53	32	47·3	36·0	41·7	− 1·8	15	25	7	2·82	?	*	*
	Foynes												*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	40	50·1	42·0	45·1	+ 0·1	29	0	7	1·09	+0·34	*	*
	Jersey (Noirmont)	50	40	47·7	41·7	44·7	+ 2·5	20	1	7	0·66	−0·04	23	34

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Errata.—Owing to some errors in the Reports from Pembroke and Falmouth the figures given for the Rainfall for last week were incorrect. At the former station the "Total in the Week" should be "1·20," and the "Difference from the Mean" "+0·40"; and at the latter the corresponding values should be "2·34" and "+1·07."

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 7.] *New Series.* WEEK ENDING MONDAY, 16TH FEBRUARY, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 28.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	47	20	30·9	30·8	35·3	4 below.	0	16	46	213
	1. SCOTLAND, EAST	53	21	44·5	33·0	38·8	0 (average).	7	21	34	271
	2. ENGLAND, N.E.	55	29	47·0	38·1	42·6	3 above.	21	54	11	212
	3. ENGLAND, EAST	58	31	50·9	40·3	45·6	6 above.	32	76	5	253
	4. MIDLAND COUNTIES	59	31	49·9	40·2	45·1	5 above.	29	74	5	253
	5. ENGLAND, SOUTH	58	32	50·4	43·1	46·8	5 above.	34	95	0	188
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	52	23	45·5	36·2	40·9	1 above.	10	42	23	197
	7. ENGLAND, N.W.	53	25	46·1	39·4	42·8	2 above.	17	56	7	194
	8. ENGLAND, S.W.	54	31	49·8	43·2	46·5	4 above.	32	113	0	140
	9. IRELAND, NORTH	55	23	48·0	36·7	42·4	1 below.	25	90	15	170
	10. IRELAND, SOUTH	56	25	49·5	40·0	44·8	2 below.	28	144 *	6	118
	— CHANNEL ISLANDS	53	41	51·0	45·4	48·3	4 above.	44	144	0	74

	DISTRICTS. (See p. 28.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	12	4 more.	33	5·3	10	43	16	12
	1. SCOTLAND, EAST	4	7	3 more.	26	3·6	24	48	38	13
	2. ENGLAND, N.E.	4	3	1 less.	27	2·5	1	10	2	2
	3. ENGLAND, EAST	4	8	4 more.	30	3·5	4	62	6	15
	4. MIDLAND COUNTIES	4	10	5 more.	30	4·3	5	37	7	9
	5. ENGLAND, SOUTH	5	12	7 more.	29	4·8	4	45	6	11
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	14	1 less.	32	7·4	11	46	17	12
	7. ENGLAND, N.W.	6	5	2 less.	29	4·1	3	24	5	6
	8. ENGLAND, S.W.	7	11	2 more.	35	6·3	1	51	1	12
	9. IRELAND, NORTH	5	6	0 (average).	33	5·0	18	83	27	20
	10. IRELAND, SOUTH	5	4	4 less.	37	7·2	10	92	15	22
	— CHANNEL ISLANDS	7	8	1 more.	38	5·3	10	79	14	18

General Remarks.

Weather has continued dull and unsettled in all parts of the Kingdom, with heavy falls of rain over southern and central England, and showers of rain, sleet, or snow at times in the more northern districts. Over the Channel and our southern coasts a good deal of fog has prevailed.

Temperature has been 4° below the mean in "Scotland, N." and about equal to its normal value in "Scotland, E.", but above in all other districts, the excess over central, southern, and eastern England being as great as 5° or 6°. The maxima were generally registered on the 12th, when the thermometer rose to 56° in "Ireland, S.", 58° in the south and east of England, and 59° in the "Midland Counties". In "Scotland, N.", however, the highest reading was only 47°. The minima, which were recorded on the 10th at most of the English stations, and on the 15th or 16th, over Ireland and Scotland, varied from between 20° and 23° in Scotland, and 23° and 25° over Ireland and the north-west of England, to 32° in "England, S." and 41° in the "Channel Islands".

Rainfall has been less than the mean in "England, N.E.", "Scotland, W.", "England, N.W.", and "Ireland, S.", and about equal to it in "Ireland, N.", but more elsewhere. In the south of England and the "Midland Counties" the excess was considerable.

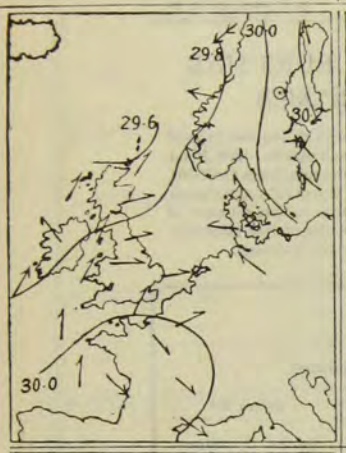
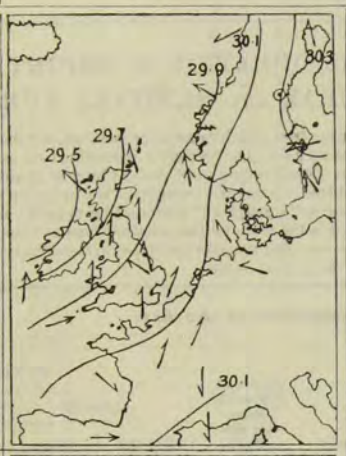
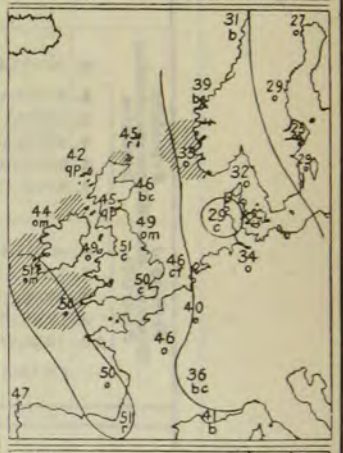
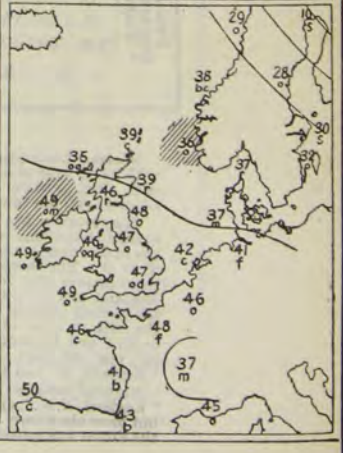
Bright sunshine shows an increase in "Scotland, E.", but a decrease in nearly all other districts. The percentages of the possible duration ranged from 1 in "England, S.W.", 2 in "England, N.E.", and between 5 and 7 in the other parts of England, to 27 in "Ireland, N." and 38 in "Scotland, E."

Depressions observed.—During the greater part of this period the distribution of pressure continued similar to that of last week, high pressure areas lying over France and Sweden, and depressions moving in a north-easterly direction over our western and northern coasts. By 8 A.M. on the 15th, however, the conditions had become more complex. Pressure had given way over Sweden, while a shallow depression had advanced to the St. George's Channel and our south-west coasts, and a band, or tongue, of low pressure stretched from the north of Scandinavia to the northern parts of Scotland and Ireland. On the following day the barometer had again risen in the north of Sweden, and the shallow disturbance over our south-west coasts travelled slowly eastwards. Fresh or strong South-Westerly to Westerly winds were prevalent over our Islands till the week drew towards its close, when they gave place to light variable breezes, chiefly Northerly in the north and west, and South-Westerly in the south and south-east.

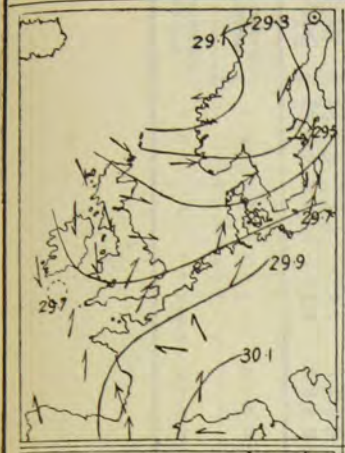
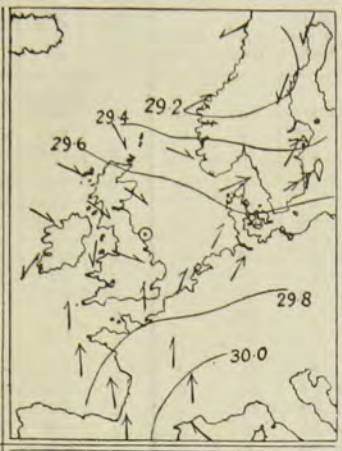
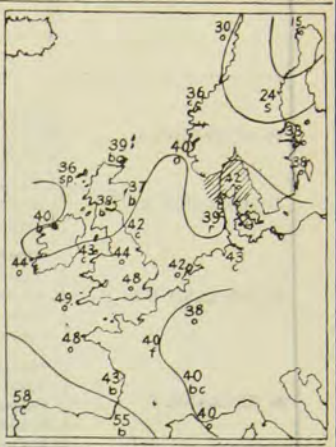
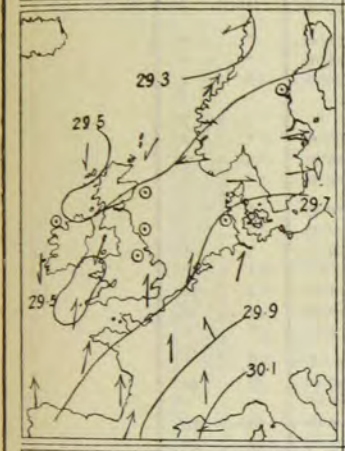
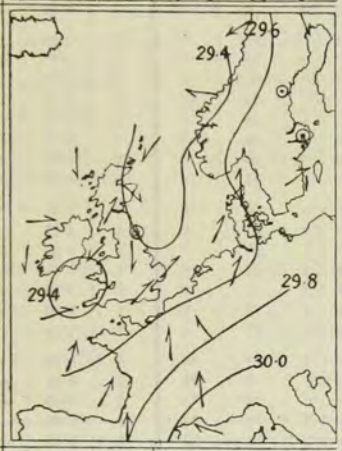
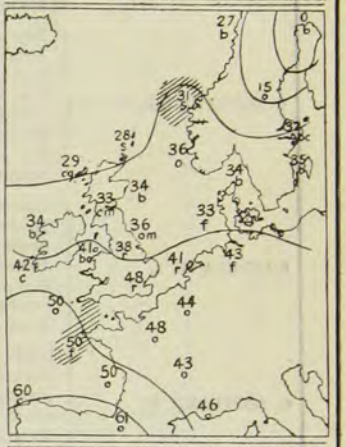
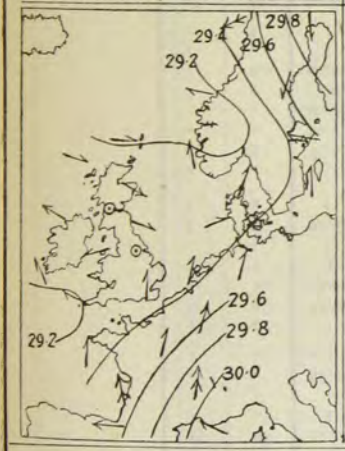
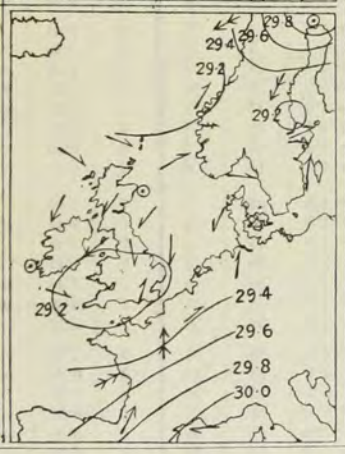
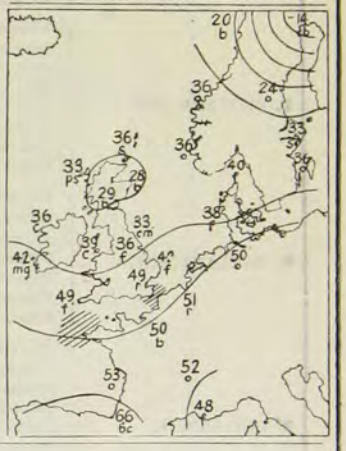
* This value has been altered owing to the receipt of some arrears of observations.

E 16197. 400.—2/85. Wt. 24. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, February 10.** *Weather* at 8 a.m. fair over the eastern and southern parts of our Islands, clear in the north, rainy in Ireland; becoming showery for a time later on in all parts of the Kingdom. *Temperature* risen in south-west, fallen slightly elsewhere; maxima for day 50° to 55° in Ireland, but lower over Great Britain. *Wind* Southerly and South-Westerly; moderate or light at first; afterwards blowing a gale from South-South-West in far west, and strong breeze from South-East at Stornoway. *Sea* rough in extreme north, west, and south-west. *Barometer* high both over France and Northern Europe, low in west and north-west; gradients moderate to slight. Depression appearing in north-west later on.	
		Wednesday, February 11 *Weather* finer than on 10th, but still rather showery in the west and north. *Temperature* risen in all districts. Maxima now as high as 53° to 56° over most parts of England. *Wind* veering to West, strong to moderate in force; lulling considerably in the west and north later, and backing to the South-Westward again in Ireland. *Sea* rough west and north, but going down. *Barometer* rising; yesterday's depression now off the north of Scotland, and developing a "hollow" over the North Sea.	
		Thursday, February 12. *Weather* foggy but mild in the south and south-west, dull elsewhere, with rain in several places. Rain falling subsequently except in the south-east and east—heavily in north and north-west. Aurora in far north at night. *Temperature* still rising; maxima over England 53° to 58°, in south-west of France 63°. *Wind* back to South-Westward again over Ireland and England generally, and blowing hard in west and south. Very variable in Scotland. *Sea* rough in west. *Barometer* falling again in west, rising elsewhere. Shallow local depression over Scotland moving north-eastwards and dispersing.	
		Friday, February 13. *Weather* dull and unsettled generally, with rain at all but our midland and eastern stations. Rain heavy in the north. *Temperature* fallen decidedly; daily maxima over England varying from 48° to 52°. *Wind* calm and varying in Scotland, South-Westerly to Westerly elsewhere; still blowing strongly at our western stations. *Sea* rough in extreme north-west. *Barometer* highest over France, lowest in north; new depression coming over Scotland from the westward.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, February 14.** *Weather* improved considerably in Ireland and Scotland, dull in England, with rain at times. *Temperature* falling decidedly in Ireland, and subsequently in Scotland also, still rather high over England; air damp. *Wind* veering to North-West and North at Irish and Scotch stations, remaining Westerly and South-Westerly over greater part of England; moderate in most places. *Sea* gone down. *Barometer* changing little (after falling generally). Distribution of pressure becoming complex; gradients for north-westerly winds appearing in north and north-west; shallow local depression off south of Ireland.	
		**Sunday, February 15.** *Weather* fine in west and at some northern stations, showery elsewhere; a good deal of rain in south and south-east of England, and some snow in Scotland. *Temperature* becoming decidedly low in north and west, but not falling much in south. Our south-eastern counties as much as 17° warmer than central Ireland and 20° warmer than the Shetlands. *Wind* very variable, and light in force. Still South-Westerly at our extreme southern stations, but Northerly in south of Ireland and north of Scotland. *Sea* rough at mouth of Channel. *Barometer* falling; still highest over south of France, but readings over our Islands very irregular. Local depressions over St. George's Channel and off west of Scotland.	
		**Monday, February 16.** *Weather* fine over Scotland and Ireland, rainy over England, especially over the southern counties. *Temperature* remaining high in the south till night, then beginning to fall; very low over inland parts of Scotland and Ireland. Nairn at 8 a.m. 27° colder than London. *Wind* still South-Westerly and Southerly in the south, Easterly and variable further northwards, moderate or light generally. Veering to North-Westward in south later, and falling calm in Scotland. *Sea* not much disturbed. *Barometer*. Pressure distribution still very complex; changes irregular. The depression in the south-west, growing rather deeper and moving eastwards over our southern counties.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⟹ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 25 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	46	25	41·0	32·6	36·8	− 2·2	0	36	7	0·79	−0·01	*	*
	Stornoway	47	20	39·6	29·7	34·7	− 4·6	0	51	7	2·02	+1·03	10	16
	Wick	45	20	39·1	30·0	34·6	− 4·3	0	52	6	0·80	+0·30	*	*
1. SCOTLAND, E.	Nairn	49	21	40·3	31·0	35·7	− 3·2	0	44	6	1·33	+0·98	*	*
	Aberdeen	53	26	45·9	32·6	39·3	+ 0·8	11	36	3	0·41	−0·17	24	38
	Leith	53	28	47·4	35·4	41·4	+ 1·9	15	27	4	0·42	+0·02	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	29	45·1	36·1	40·6	+ 1·6	9	23	4	0·15	?	*	*
	Shields	55	30	47·0	37·4	42·2	+ 2·7	21	13	4	0·18	−0·24	*	*
	Scarborough ℔	53	36	47·0	39·0	43·0	+ 4·0	20	8	5	0·31	−0·09	*	*
	York	55	34	48·9	38·9	43·9	+ 4·4	26	9	5	0·42	0·00	1	2
	Spurn Head	51	36	46·9	39·3	43·1	+ 3·7	19	8	4	0·49	?	*	*
3. ENGLAND, E.	Hillington ℔	55	31	49·8	39·8	44·8	+ 5·5	29	6	4	0·93	+0·44	2	3
	Yarmouth	54	33	49·7	39·7	44·7	+ 4·2	29	6	4	0·80	+0·29	*	*
	Geldeston	56	33	51·1	40·8	46·0	+ 5·2	33	3	4	0·85	+0·42	6	9
	Cambridge	58	32	52·7	39·6	46·2	+ 5·8	39	7	3	0·67	+0·28	5	7
	Rothamsted	56	32	51·2	41·6	46·4	+ 6·6	32	1	5	0·97	+0·42	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	36	49·9	39·7	44·8	+ 4·6	29	6	4	0·86	+0·46	*	*
	Loughborough	57	37	50·0	40·9	45·5	+ 5·6	29	3	4	1·11	+0·66	*	*
	Leicester	57	35	51·0	40·2	45·6	+ 5·9	33	5	4	1·28	+0·83	3	4
	Cheadle ℔	52	32	46·7	37·6	42·2	+ 3·0	20	12	5	0·88	?	*	*
	Churchstoke ℔	53	32	48·9	39·4	44·2	+ 3·6	26	7	4	0·74	?	5	7
	Hereford ℔	59	34	51·2	39·3	45·3	+ 4·4	34	8	4	0·87	+0·34	*	*
	Cirencester	52	31	49·1	41·1	45·1	+ 5·2	25	3	6	1·22	+0·52	6	9
	Oxford	57	36	52·4	43·3	47·9	+ 7·3	41	0	4	0·95	+0·46	?	?
5. ENGLAND, S.	London†	58	33	52·7	42·4	47·6	+ 6·4	39	0	3	1·04	+0·59	2	3
	Marlborough ℔	56	33	50·5	43·0	46·8	+ 6·8	34	0	5	1·27	+0·61	3	4
	Strathfield Turgiss ℔	55	37	51·9	43·4	47·7	+ 6·7	40	0	4	0·96	+0·45	*	*
	Dungeness	50	35	48·4	42·0	45·2	+ 3·2	22	0	5	1·43	?	*	*
	Hastings (St. Leonard's)	52	37	48·8	43·9	46·4	+ 4·8	31	0	7	1·59	+1·07	7	10
	Southampton	53	32	51·6	44·5	48·1	+ 6·7	43	0	7	1·16	+0·47	4	6
	Hurst Castle	50	37	48·7	42·6	45·7	+ 3·3	26	0	7	1·14	+0·49	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	52	23	45·6	33·0	39·3	− 0·5	10	34	5	3·51	?	*	*
	Glasgow	50	31	45·2	36·9	41·1	+ 1·8	9	20	5	0·88	−0·10	13	20
	Ardrossan	48	27	44·7	36·4	40·6	+ 1·0	8	22	5	0·89	+0·06	*	*
	Silloth (Cumberland)	50	29	46·0	37·2	41·6	+ 1·1	11	20	4	0·66	0·00	10	15
	Douglas (Isle of Man)	49	31	45·9	37·4	41·7	+ 0·7	11	19	5	0·85	−0·15	10	15
7. ENGLAND, N.W.	Newton Reigny (Penrith)	50	25	43·6	35·3	39·5	+ 1·1	4	25	6	0·41	?	4	6
	Barrow-in-Furness	46	31	43·9	38·1	41·0	− 0·1	5	15	5	0·35	?	*	*
	Stonyhurst	52	32	48·3	40·0	44·2	+ 4·7	24	6	7	0·62	−0·33	3	5
	Blackpool ℔	48	30	44·9	38·1	41·5	+ 0·3	8	16	7	0·51	−0·09	6	9
	Manchester	52	35	46·3	39·2	42·8	+ 2·6	17	8	5	0·37	−0·23	*	*
	Liverpool Obsy (Bidston)	53	36	47·9	40·9	44·4	+ 3·1	21	3	6	0·51	+0·06	*	*
	Llandudno ℔	50	37	47·8	41·6	44·7	+ 2·3	21	1	5	0·49	−0·11	0	0
	Holyhead	50	38	46·3	42·0	44·2	+ 1·2	15	0	3	0·46	−0·19	*	*
8. ENGLAND, S.W.	Llandovery	53	32	48·7	40·0	44·4	+ 2·6	25	6	7	1·15	?	*	*
	Pembroke	48	40	46·4	43·1	44·8	+ 1·3	20	0	7	0·45	−0·26	2	3
	Arlington (N. Devon)	50	34	49·0	41·7	45·4	+ 3·9	25	1	7	1·51	?	*	*
	Cullompton ℔	54	31	52·2	42·9	47·6	+ 5·6	39	0	5	1·13	?	1	1
	Falmouth	53	43	51·3	46·8	49·1	+ 5·1	50	0	7	1·18	+0·08	1	1
	Plymouth	53	37	51·7	44·7	48·2	+ 4·7	43	0	7	0·89	+0·07	0	0
	Prawle Point	51	38	49·3	43·3	46·3	+ 3·1	30	0	7	1·17	?	*	*
9. IRELAND, N.	Malin Head	50	34	47·6	37·9	42·8	+ 2·4	23	11	5	1·40	?	*	*
	Londonderry	53	30	49·0	37·6	43·3	+ 2·7	28	12	6	0·39	−0·33	*	*
	Mullaghmore	52	30	47·9	38·6	43·3	+ 2·2	23	10	4	0·76	?	*	*
	Belmullet	51	32	47·4	38·7	43·1	− 0·4	22	9	6	0·98	?	*	*
	Markree Castle	53	23	47·9	34·8	41·4	+ 1·0	17	30	4	0·50	−0·20	20	30
	Brookeborough	51	24	47·9	34·5	41·2	+ 1·4	17	30	4	0·52	?	*	*
	Armagh	55	26	49·0	36·8	42·9	+ 2·0	28	15	5	0·28	−0·32	15	23
	Donaghadee	54	29	48·4	37·0	42·7	+ 1·7	26	14	4	0·40	−0·20	*	*
	Edgeworthstown	52	23	47·0	34·6	40·8	0·0	14	29	4	0·32	?	*	*
10. IRELAND, S.	Dublin	55	33	49·8	41·5	45·7	+ 3·7	28	1	3	0·97	+0·39	11	16
	Parsonstown	55	25	48·7	36·6	42·7	+ 1·8	28	15	3	0·23	−0·33	13	19
	Kilkenny	55	29	49·2	38·0	43·6	+ 2·5	28	11	4	0·32	?	*	*
	Waterford	52	36	48·0	41·4	44·7	+ 1·2	21	2	6	0·39	−0·47	*	*
	Roche's Point	54	38	49·6	41·6	45·6	+ 1·5	27	1	6	0·49	−0·57	*	*
	Valencia	55	39	50·7	44·0	47·4	+ 2·1	38	0	5	0·18	−0·97	6	9
	Killarney	56	35	50·3	42·4	46·4	+ 2·8	31	0	5	0·37	?	*	*
	Foynes	55	31	49·6	34·7	42·3	+ 0·4	33	20	4	0·29	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	45	51·7	47·4	49·6	+ 3·6	53	0	7	0·64	−0·05	*	*
	Jersey (Noirmont)	53	41	50·3	43·4	46·9	+ 4·4	34	0	6	0·92	+0·26	10	14

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 8.] *New Series.* WEEK ENDING MONDAY, 23RD FEBRUARY, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 32.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	9	40·7	27·4	34·0	5 below.	0	16	56	269
	1. SCOTLAND, EAST	52	15	42·4	26·0	34·2	5 below.	1	22	56	327
	2. ENGLAND, N.E.	51	20	41·9	31·0	36·5	3 below.	0	54	39	251
	3. ENGLAND, EAST	51	22	42·7	31·2	37·0	4 below.	2	78	39	292
	4. MIDLAND COUNTIES	54	21	43·5	29·4	36·5	4 below.	4	78	45	298
	5. ENGLAND, SOUTH	51	23	45·4	33·0	39·3	3 below.	10	105	35	223
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	50	23	42·1	31·0	36·6	4 below.	0	42	39	236
	7. ENGLAND, N.W.	53	18	42·2	30·7	36·5	5 below.	1	57	40	234
	8. ENGLAND, S.W.	55	22	46·6	33·9	40·2	3 below.	13	126	31	171
	9. IRELAND, NORTH	54	18	44·9	31·2	38·1	3 below.	8	98	40	210
	10. IRELAND, SOUTH ‡	55	21	46·0	32·6	39·3	4 below.	11	155	36	154
	— CHANNEL ISLANDS	52	35	47·1	39·7	43·4	1 below.	19	163	6	80

	DISTRICTS. (See p. 32.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	6	1 less.	38	5·9	18	61	27	14
	1. SCOTLAND, EAST	3	3	1 less.	29	3·9	31	79	46	18
	2. ENGLAND, N.E.	4	2	2 less.	31	2·7	12	22	17	5
	3. ENGLAND, EAST	3	2	2 less.	33	3·7	20	82	28	17
	4. MIDLAND COUNTIES	4	3	2 less.	34	4·6	22	60*	30	12
	5. ENGLAND, SOUTH	2	3	2 less.	31	5·1	19	64	27	13
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	11	2 less.	37	8·5	19	65	28	14
	7. ENGLAND, N.W.	5	10	4 more.	34	5·1	15	39	22	8
	8. ENGLAND, S.W.	3	5	3 less.	38	6·8	21	72	30	14
	9. IRELAND, NORTH	5	10	4 more.	38	6·0	27	110	38	23
	10. IRELAND, SOUTH ‡	4	16	9 more.	41	8·8	27	119	38	25
	— CHANNEL ISLANDS	5	9	2 more.	43	6·4†	24	103	33	20

General Remarks.

Weather was cold and generally fair during the greater part of this period, but towards its close it became milder and rough, with rain in the south and south-west, and much snow, sleet, or rain in the north and north-west. A thunderstorm was experienced in the south-west of Ireland on the 21st, and another in the Hebrides on the 22nd.

Temperature has been below the mean in all districts, the deficit ranging from 1° in the "Channel Islands" to between 3° and 5° in all other districts. The highest of the maxima were registered on the 22nd or 23rd, and varied from 49° in "Scotland, N." to 55° in "England, S.W." and "Ireland, S." The minima, which were recorded either on the 20th or 21st, were lower than for many weeks past; in "Scotland, N." the thermometer fell to 9° and in "Scotland, E." to 15°, while in nearly all other districts it sank to between 18° and 23°. In the "Channel Islands", however, the lowest reading was 35°.

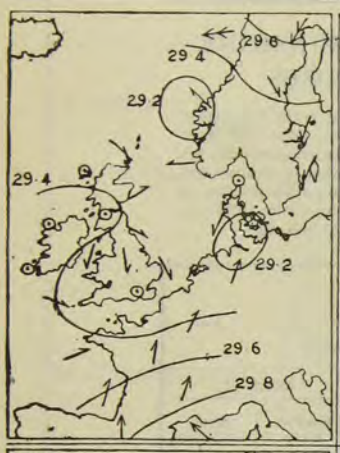
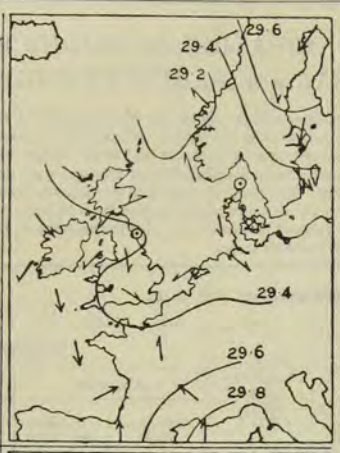
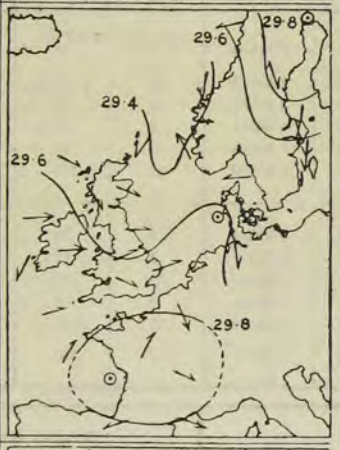
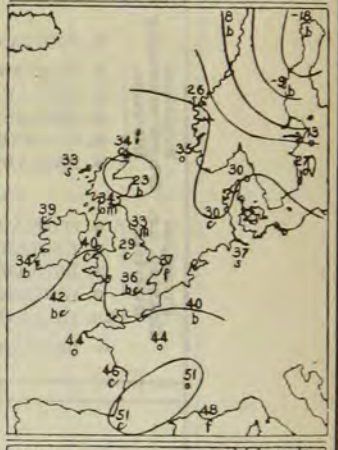
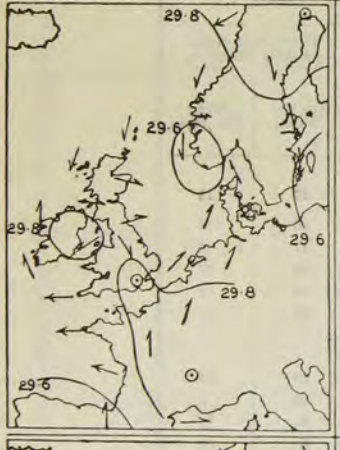
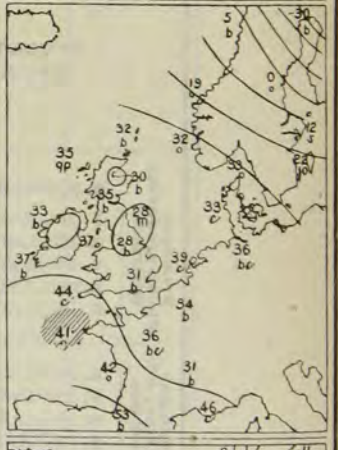
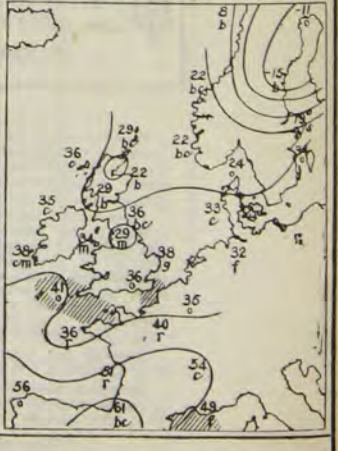
Rainfall has been rather more than the mean in "England, N.W.", over Ireland, and in the "Channel Islands", but a little less elsewhere.

Bright sunshine shows a decided increase, the percentages of the possible duration varying from 17 in "England, N.E." to 38 over Ireland, and to 46 in "Scotland, E."

Depressions observed.—The distribution of pressure has been subject to considerable changes. At the commencement of the week the barometer was highest over the south of France, while shallow depressions were shown over Denmark and off the west of Norway, and other small shallow disturbances over southern England. On the 19th and 20th, pressure was comparatively high in all the more northern parts of our area, while a depression moved eastwards over the Bay of Biscay and France. By the 21st, a large anticyclone had been formed over England, the North Sea, and the north of France, while a large and deep depression, whose centre subsequently travelled north-eastwards outside our western and north-western coasts, was approaching our western stations. During the first two days of the period the wind was generally moderate between West and North-West, and on the 19th and 20th, moderate to fresh from the Eastward, but on the appearance of the depression in the west it shifted to the South-Eastward and Southward, and increased to a gale on all our coasts. In Scotland and the north-west of Ireland the gale was of unusual violence and was accompanied by heavy snow, sleet, or rain.

* This value has been altered a little owing to the receipt of the records from Oxford for last week.
† This value has been altered slightly owing to a correction in the reports from Jersey.
‡ In consequence of the non-arrival of the Returns from Foynes the accumulated values in this district are liable to alteration.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, February 17.** *Weather* fine in Ireland, Scotland, and the south-west of England, but cloudy or overcast elsewhere, with snow in the north of England and rain and fog in the south-east. *Temperature* fallen generally; readings ranging from 47° at Hurst Castle, Dungeness, and Jersey to 26° at Aberdeen. Maxima below 40° at some of our northern and north-eastern stations. *Wind* South-Westerly in France and the south of England, but varying between North-East and North-West in the west and north of our Islands; light or moderate in force in most places. *Sea* rather rough at Scilly, Spurn Head, and Yarmouth; moderate to smooth elsewhere. *Barometer* falling on the eastern shores of the North Sea, but rising in our Islands and France, most in the west. Pressure highest in south-east of France, but relatively high in Sweden, with a shallow depression lying off the west of Norway, another over the south of Denmark, and a third over South Wales. Depressions moving eastwards later, and barometer rising generally.	
		**Wednesday, February 18.** *Weather* fair at most stations, but snow falling in the north of Scotland as well as at Donaghadee and Cuxhaven. Showers of snow or hail falling later at all our more northern stations. *Temperature* fallen in most places; readings ranging from 42° at Scilly to 23° at Aberdeen. Maxima below 40° in north of Scotland. *Wind* South-Easterly in the west of Norway, but Westerly or North-Westerly elsewhere; light or moderate in force generally. Subsequently backing to South-West at several of the English stations. *Sea* moderate to smooth. *Barometer* rising generally. Pressure highest in south of France and relatively high in north of Sweden, with shallow depressions over the North Sea and North Germany. Rise continuing all day, but no important change taking place in distribution of pressure.	
		**Thursday, February 19.** *Weather* dull in Scandinavia and the west of France, but fine in most other localities. Snow showers falling, however, in north of Scotland. Rain occurring in west of France later. *Temperature* risen a little at the northern stations, but fallen elsewhere; readings ranging from 44° at Scilly to 23° at Parsonstown. Severe frost occurring in north of Scotland at night; minimum at Wick being as low as 9°. *Wind* Easterly over the Channel and Bay of Biscay, but variable at our more northern stations; strong in force in the west of France. *Sea* rough at Brest, moderate to smooth elsewhere. *Barometer* rising at all but the western French stations. Large area of high pressure lying over our Islands and France, with another high pressure system over the north of Sweden, and shallow depressions in the intermediate regions. Depression subsequently appearing over Bay of Biscay, and barometer falling on all our western and southern coasts.	
		Friday, February 20. *Weather* fine on our western and northern coasts, but cloudy or overcast elsewhere, with rain at several of the French stations. Sky subsequently becoming cloudy on our extreme western coasts. *Temperature* risen slightly in south, but fallen rapidly in north; readings ranging from 41° at Scilly to 15° at Nairn and 13° at Wick. Brisk rise taking place in Scotland later. *Wind* variable in Scotland, but strong from East or North-East on our southern coasts, and from South in the South of France. Subsequently shifting to South-East in extreme west and freshening. *Sea* rough in the Channel, moderate to smooth elsewhere. *Barometer* falling at all but our northern stations. Depression over Bay of Biscay, and large area of relatively high pressure over Scotland and the North Sea. Depression moving eastwards later, and barometer rising generally.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

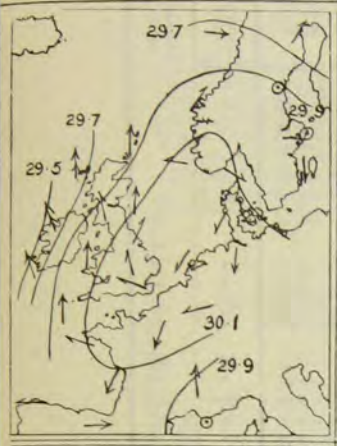
Weather

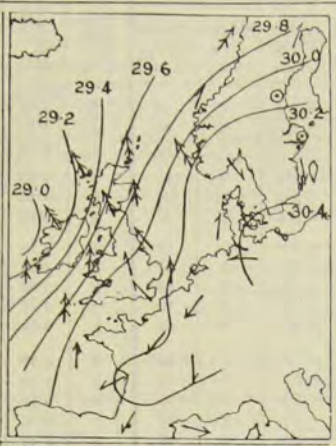
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Saturday, February 21.

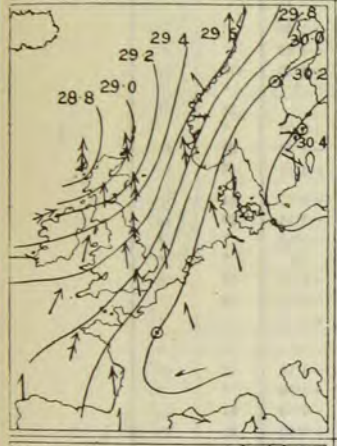
Weather dull in Ireland and the west of Scotland, with rain at Valencia but generally fine elsewhere. Rain subsequently extending to all our western stations. Snow falling in Scotland, and thunder and lightning occurring in Ireland.

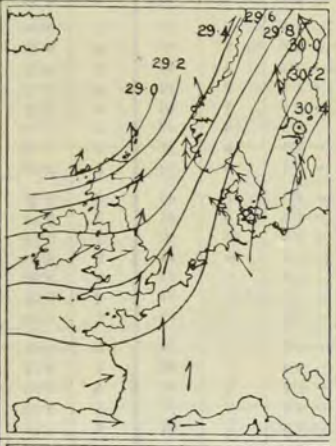
Temperature fallen in England but risen fast in Ireland and Scotland; readings ranging from 47° at Roche's Point to 23° at Loughborough.

Wind moderate South-Easterly in the east and south, but strong Southerly in the west and north, with gales at Stornoway and Mullaghmore. Subsequently increasing to whole gale or "storm" in Ireland and Scotland and to fresh or strong gale in many parts of England.

Sea high at Stornoway and Valencia; rough on our extreme west coasts generally. Rising considerably in north later.

Barometer falling briskly in west and north, rising elsewhere. Large area of high pressure lying over England, the North Sea, and the north of France, with deep depression advancing towards our extreme western coasts. Fall extending to all stations later.





Sunday, February 22.

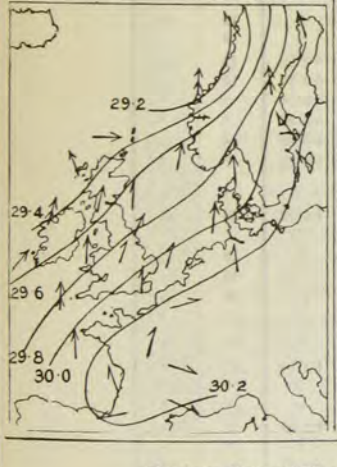
Weather fair at some of the Irish stations, but cloudy or overcast elsewhere, with rain on our north-east coasts and a thunderstorm at Stornoway. Rain falling later in most parts of the Kingdom.

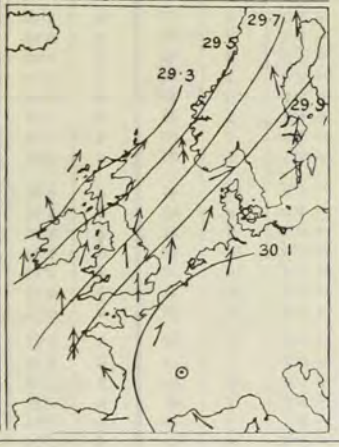
Temperature risen several degrees; readings ranging from 50° at Scilly to 35° at Spurn Head.

Wind Westerly in Ireland, but Southerly elsewhere; strong to a gale in many places. Subsequently veering to the South-Westward generally, and moderating at all but our extreme northern stations.

Sea very high on the Scotch coasts and high at the mouth of the Channel, rough generally.

Barometer rising at the Irish and several of the Continental stations, but falling elsewhere. Pressure highest over the Baltic, with deep depression of previous day lying to the north-westward of the Hebrides. Depression subsequently travelling north-eastwards and barometer rising generally.





Monday, February 23.

Weather fair in France and the east and south of England, but cloudy elsewhere, with rain at several of the western and north-western stations. Lunar halo seen in many places at night.

Temperature risen slightly; readings ranging from 51° at Valencia to 37° at Cambridge.

Wind South-Easterly in the north of Scotland, but Southerly or South-Westerly elsewhere; strong to a gale at some of the western stations. Subsequently veering to South-West in extreme north.

Sea rough on all but our south and east coasts.

Barometer rising at all but the Scandinavian and Irish stations. Depression of previous two days now lying off west of Norway, with new disturbance to the westward of Scotland. Fall taking place generally later.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 29 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	46	23	40·3	30·1	35·2	− 3·8	0	48	6	0·34	−0·46	*	*
	Stornoway	49	22	41·4	29·0	35·2	− 4·3	0	48	6	1·34	+0·42	18	27
	Wick	47	9	40·3	23·0	31·7	− 7·3	0	72	4	0·24	−0·26	*	*
1. SCOTLAND, E.	Nairn	51	15	41·4	24·0	32·7	− 6·5	0	65	2	0·18	−0·17	*	*
	Aberdeen	47	20	41·7	25·1	33·4	− 5·3	0	60	3	0·56	−0·01	31	46
	Leith	52	23	44·0	29·0	36·5	− 3·4	6	47	4	0·25	−0·14	*	*
2. ENGLAND, N.E.	Alnwick Castle	50	27	40·7	31·7	36·2	− 2·8	0	41	1	0·14	?	*	*
	Shields	51	26	43·0	28·9	36·0	− 3·8	3	47	4	0·09	−0·31	*	*
	Scarborough ℳ	49	30	42·0	32·7	37·4	− 2·3	0	32	5	0·34	−0·06	*	*
	York	51	20	42·7	27·9	35·3	− 4·6	2	50	4	0·37	−0·04	12	17
	Spurn Head	47	33	41·0	34·0	37·5	− 2·2	0	32	5	0·28	?	*	*
3. ENGLAND, E.	Hillington ℳ	50	22	42·2	30·6	36·4	− 3·6	1	40	2	0·29	−0·18	18	26
	Yarmouth	47	31	41·1	33·3	37·2	− 3·7	0	34	4	0·18	−0·33	*	*
	Geldeston	49	31	42·1	33·1	37·6	− 3·4	0	31	2	0·31	−0·09	20	28
	Cambridge	51	23	44·0	28 7	36·4	− 4·4	6	48	1	0·06	−0·31	22	31
	Rothamsted	50	24	44·1	30·4	37·3	− 2·9	6	42	5	0·24	−0·27	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	50	22	41·3	29·9	35·6	− 5·0	0	45	5	0·49	+0·09	*	*
	Loughborough	52	21	44·4	28·6	36·5	− 3·8	7	49	5	0·21	−0·22	*	*
	Leicester	53	22	43·7	30·0	36·9	− 3·4	5	44	3	0·21	−0·22	19	27
	Cheadle ℳ	51	25	41·8	29·1	35·5	− 4·2	0	46	5	0·15	?	*	*
	Churchstoke ℳ	52	23	42·3	29·0	35·7	− 5·0	1	46	4	0·58	?	22	31
	Hereford ℳ	54	21	46·5	29·0	37·8	− 3·5	13	49	1	0·53	+0·03	*	*
	Cirencester	52	23	43·7	29·0	36·4	− 3·9	5	47	2	0·15	−0·48	22	31
	Oxford	51	24	44·1	30·9	37·5	− 3·5	6	40	3	0·04	−0·41	23	32
5. ENGLAND, S.	London†	51	28	44·6	32·4	38·5	− 3·3	7	35	3	0·13	−0·27	14	20
	Marlborough ℳ	49	23	43·6	30·6	37·1	− 3·5	4	41	2	0·46	−0·14	20	28
	Strathfield Turgiss ℳ	50	23	46·7	29·0	37·9	− 3·8	13	49	2	0·10	−0·38	*	*
	Dungeness	50	32	45·6	36·0	40·8	− 1·6	10	24	2	0·44	?	*	*
	Hastings (St. Leonard's)	49	31	44·7	35·7	40·2	− 2·0	8	24	2	0·63	+0·15	23	32
	Southampton	50	28	46·4	33·3	39·9	− 1·9	12	34	2	0·29	−0·33	19	27
	Hurst Castle	50	29	46·4	34·3	40·4	− 2·4	12	30	2	0·20	−0·40	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	50	23	40·6	30·1	35·4	− 4·7	0	46	6	2·85	?	*	*
	Glasgow	50	27	41·3	30·3	35·8	− 3·9	0	43	5	0·77	−0·12	17	25
	Ardrossan	46	27	43·1	30·9	37·0	− 2·7	3	40	4	0·66	−0·13	*	*
	Silloth (Cumberland)	48	24	43·2	30·3	36·8	− 4·5	3	42	4	0·55	−0·06	21	30
	Douglas (Isle of Man)	49	28	42·5	33·2	37·9	− 3·6	1	32	5	0·61	−0·29	20	29
7. ENGLAND, N.W.	Newton Reigny (Penrith)	47	18	39·5	25·9	32·7	− 6·0	0	65	5	1·36	?	15	22
	Barrow-in-Furness	46	27	42·1	31·0	36·6	− 4·9	0	39	5	0·89	?	*	*
	Stonyhurst	48	24	42·6	28·9	35·8	− 4·0	2	47	5	1·20	+0·30	12	17
	Blackpool ℳ	49	23	42·2	28·8	35·5	− 6·0	1	46	4	1·33	+0·78	16	23
	Manchester	51	26	40·9	30·0	35·5	− 5·1	0	46	6	0·84	+0·26	*	*
	Liverpool Obsy (Bidston)	52	28	42·6	32·0	37·3	− 4·2	2	35	4	0·70	+0·29	*	*
	Llandudno ℳ	53	29	43·5	33·9	38·7	− 3·9	4	29	5	0·75	+0·19	18	26
	Holyhead	50	30	43·9	35·1	39·5	− 3·5	5	25	4	0·95	+0·35	*	*
8. ENGLAND, S.W.	Llandovery	53	23	46·7	30·0	38·4	− 3·9	13	46	4	0·80	?	*	*
	Pembroke	48	33	45·1	35·9	40·5	− 3·4	9	24	4	1·20	+0·53	30	42
	Arlington (N. Devon)	50	27	45·0	31·0	38·0	− 3·8	8	41	2	0·40	?	*	*
	Cullompton ℳ	55	22	47·3	31·1	39·2	− 3·0	15	42	3	0·35	?	19	27
	Falmouth	53	36	46·8	38·8	42·8	− 1·3	19	9	3	0·74	−0·28	15	21
	Plymouth	53	29	48·0	34·5	41·3	− 2·7	17	31	2	0·17	−0·61	20	28
	Prawle Point	50	32	47·0	36·0	41·5	− 2·0	14	25	3	0·15	?	*	*
9. IRELAND, N.	Malin Head	52	28	46·1	32·3	39·2	− 1·5	11	37	6	0·51	?	*	*
	Londonderry	53	22	44·4	30·8	37·6	− 3·1	7	41	6	0·86	+0·16	*	*
	Mullaghmore	53	25	46·3	32·9	39·6	− 1·6	12	35	5	1·17	?	*	*
	Belmullet	50	30	44·6	33·7	39·2	− 4·2	7	31	6	0·97	?	*	*
	Markree Castle	52	20	44·4	29·5	37·0	− 3·5	7	46	5	1·01	+0·36	27	39
	Brookeborough	51	18	44·8	29·8	37·3	− 2·5	8	45	4	1·24	?	*	*
	Armagh	54	25	45·4	31·6	38·5	− 2·9	10	39	5	0·85	+0·25	26	37
	Donaghadee	50	26	43·6	32·3	38·0	− 3·4	4	35	5	1·52	+0·94	*	*
	Edgeworthstown	52	22	44·4	28·5	36·4	− 4·6	7	50	3	0·73	?	*	*
10. IRELAND, S.	Dublin	55	26	43·7	33·5	38·6	− 3·8	5	31	4	0·81	+0·26	24	34
	Parsonstown	54	22	45·6	29·6	37·6	− 3·7	10	46	5	0·88	+0·33	28	40
	Kilkenny	52	21	44·0	28·9	36·5	− 5·0	6	48	5	1·15	?	*	*
	Waterford	52	22	45·3	31·5	38·4	− 5·6	9	39	3	1·80	+1·01	*	*
	Roche's Point	51	31	48·0	36·4	42·2	− 2·0	25	16	3	1·46	+0·44	*	*
	Valencia	54	31	49·0	36·0	42·5	− 2·8	29	17	4	2·08	+1·02	29	41
	Killarney	55	22	46·5	32·6	39·6	− 4·1	13	36	5	3·29	?	*	*
	Foynes												*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	38	48·7	40·7	44·7	− 1·3	24	4	4	0·50	−0·13	*	*
	Jersey (Noirmont)	52	35	45·4	38·7	42·1	− 0·4	15	9	5	1·19	+0·58	24	33

Stations marked ℳ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Erratum.—The "Rainfall in the Week" at Jersey for the Report ending Feb. 16th should be "1·32," and the "Difference from the Mean" "+0·66."

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 9.] *New Series.* WEEK ENDING MONDAY, 2ND MARCH, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 36.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	57	28	45·9	36·8	41·4	2 above.	11	27	21	290
	1. SCOTLAND, EAST	56	29	48·3	37·6	43·0	3 above.	25	47	12	339
	2. ENGLAND, N.E.	57	29	48·6	38·5	43·5	4 above.	25	79	10	261
	3. ENGLAND, EAST	58	24	49·5	37·4	43·5	3 above.	30	108	13	305
	4. MIDLAND COUNTIES	60	25	50·3	38·5	44·5	4 above.	32	110	10	308
	5. ENGLAND, SOUTH	58	30	49·8	40·9	45·4	3 above.	28	133	3	226
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	52	28	47·0	38·8	42·9	2 above.	20	62	9	245
	7. ENGLAND, N.W.	59	25	48·8	39·4	44·1	3 above.	26	83	7	241
	8. ENGLAND, S.W.	59	27	50·1	42·3	46·2	3 above.	29	155	0	171
	9. IRELAND, NORTH	59	25	49·8	38·8	44·3	3 above.	30	128	9	219
	10. IRELAND, SOUTH	58	30	52·0	42·0	47·0	4 above.	35	190	0	153 *
	— CHANNEL ISLANDS	55	39	51·0	43·6	47·3	3 above.	37	200	0	80

	DISTRICTS. (See p. 36.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	5	2 less.	43	6·4	14	75	20	15
	1. SCOTLAND, EAST	3	2	3 less.	32	4·1	18	97	25	19
	2. ENGLAND, N.E.	2	1	3 less.	33	2·8	14	36	19	7
	3. ENGLAND, EAST	6	5	1 more.	39	4·2	16	98	22	17
	4. MIDLAND COUNTIES	4	4	0 (average).	38	5·0	19	79	26	14
	5. ENGLAND, SOUTH	5	6	1 more.	36	5·7	17	81	23	14
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	7	3 less.	42	9·2	19	84	26	16
	7. ENGLAND, N.W.	4	4	2 less.	38	5·5	20	59	28	11
	8. ENGLAND, S.W.	5	10	2 more.	43	7·8	15	87	20	15
	9. IRELAND, NORTH	5	7	1 more.	43	6·7	16	126	22	23
	10. IRELAND, SOUTH	5	13	5 more.	46	10·1	18	137	24	25
	— CHANNEL ISLANDS	6	6	0 (average).	49	7·0	17	120	23	20

General Remarks.

Weather has been in an unsettled condition, with generally clouded skies and frequent falls of rain. A thunderstorm was experienced in the north of Ireland on February 26th.

Temperature has been above the mean in all districts, the excess varying from 2° or 3° in Scotland to 3° or 4° over England and Ireland. The maxima, which were registered on February 24th, were as high as 58° or 59° in most parts of the Kingdom, and 60° in the "Midland Counties"; in the "Channel Islands", however, the highest reading was 55°, and in "Scotland, W." 52°. The minima were recorded either on March 1st or 2nd, when they varied from 24° in "England, E." to 30° in "England, S." and "Ireland, S.", and to 39° in the "Channel Islands".

Rainfall has been rather less than the mean over Scotland, in "England, N.E.", and "England, N.W", but about equal to, or a little more than the normal value elsewhere.

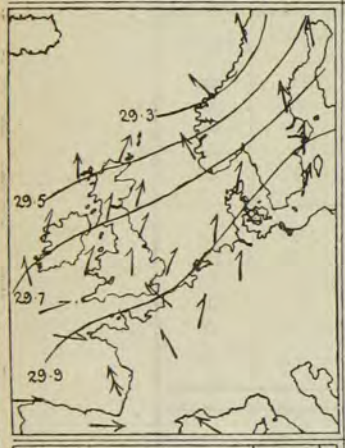
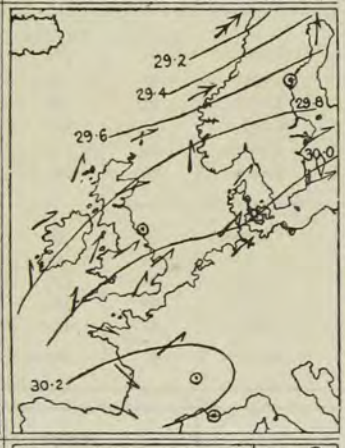
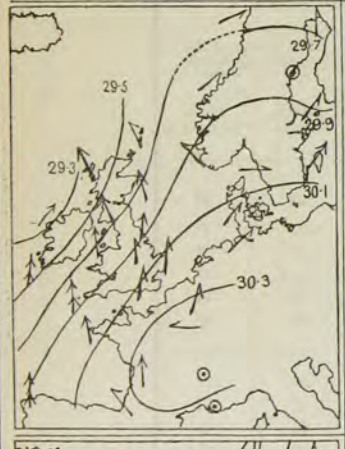
Bright sunshine shows a slight decrease, the percentages of the possible duration varying from 19 in "England, N.E." to 28 in "England, N.W."

Depressions observed.—During the earlier part of this period pressure was highest on the Continent, while depressions travelled in a north-easterly direction outside our western and north-western coasts. Under these conditions Southerly to South-Westerly winds were general, and in the west and north-west of our Islands they blew strongly, at times attaining the force of a moderate or fresh gale. On February 28th, a brisk rise of the barometer took place in the rear of a shallow subsidiary disturbance which passed over southern England and the Channel, and on March 1st, Northerly to North-Westerly breezes prevailed on all our coasts. By the close of the period, however, the barometer was falling again briskly in the west, the wind had returned to the Southward or South-Eastward, and on our western coasts was increasing in force.

* This value has been altered slightly owing to the receipt of some arrears of observations.

E 16409. 400.—3/85. Wt. 24. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		Tuesday, February 24. *Weather* dull and unsettled in the west and extreme north, with showers in several places, but fair or fine elsewhere. *Temperature* risen generally; readings ranging from 52° at Leith and Valencia to 42° at Cambridge. Subsequently rising to 58° in London and at Cambridge, and to 59° at Loughborough and Liverpool. *Wind* Southerly; moderate in the eastern and southern coasts, but strong in the west and north. *Sea* rough on our western and south-western coasts; rather rough at Stornoway; moderate to smooth elsewhere. *Barometer* falling generally. Pressure highest over Central Europe, with large depressions moving northwards along our extreme western coasts. Slight rise taking place in west later.	
		**Wednesday, February 25.** *Weather* fine at most of the Irish and Scotch stations, but cloudy or overcast elsewhere, with mist or fog over England and rain in the south-east. Fine weather subsequently extending to England. *Temperature* fallen at all but our south-eastern stations; readings ranging from 48° at Scilly to 40° at Donaghadee and Parsonstown. Maxima lower than on previous day. *Wind* South-Easterly in the west of Norway, but South-Westerly in most other localities; fresh in force at some of the northern stations. *Sea* rather rough off the north of Scotland and also at the mouth of the Channel; moderate to smooth elsewhere. *Barometer* rising at all but the Scandinavian stations. Pressure highest in south-east of France and lowest off the west of Norway. Rise continuing all day excepting in west of Ireland.	
		**Thursday, February 26.** *Weather* foggy at several of the Continental stations and cloudy in our Islands, with rain in the west and north. Rain subsequently extending to all parts of the Kingdom. *Temperature* risen in the west; readings ranging from 53° at Valencia to 42° at Spurn Head and Yarmouth. Maxima very high in northern parts of Scotland and Ireland; thermometer rising to 57° at Wick and 56° at Mullaghmore. *Wind* chiefly Southerly; strong to a gale on our western coasts, but moderate at our south-eastern and the Continental stations. Slight gale occurring in Scotland later. *Sea* rough on all the western and south-western coasts. *Barometer* falling quickly in west and north, rising elsewhere. Anticyclone lying over France, with rather deep depression off our north-west coasts. Depression subsequently moving northwards, but other disturbances appearing in west, and barometer continuing to fall in most places.	
		Friday, February 27. *Weather* fine at several of our northern stations, but cloudy or overcast elsewhere, with rain in central and south-eastern England. Rain falling on our western and northern coasts later. *Temperature* fallen in Ireland, risen elsewhere; readings varying from 52° at Wick and 51° at Valencia to 45° at Sumburgh Head and Aberdeen. Highest maxima 57° at Wick and 56° at Nairn and Loughborough. *Wind* Southerly or South-Westerly; moderate in force in east, but strong in west and south. Subsequently shifting to North in west of Ireland, and falling moderate. *Sea* rather rough in south-west and south, moderate to smooth elsewhere. *Barometer* falling generally. Pressure highest over central Europe and lowest to the westward and northward of our Islands, but no definite depression observed. Small disturbance appearing over south of Ireland later, and barometer rising briskly in its rear.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

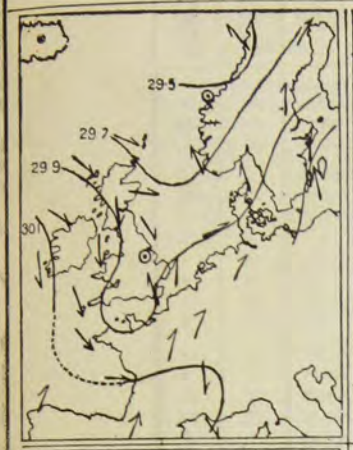
Weather

During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.



Saturday, February 28.

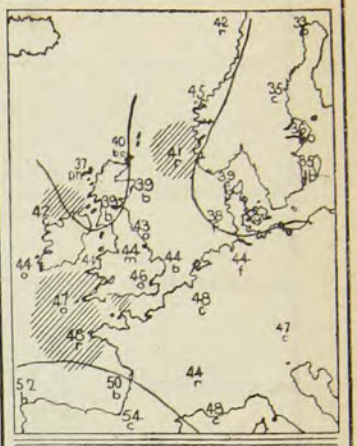
Weather foggy in Denmark and rainy at one or two of our southern stations, but fair or fine elsewhere. Snow showers falling in north of Scotland later.

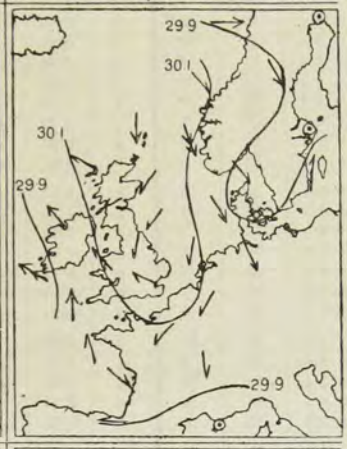
Temperature fallen generally—several degrees in west and north; readings ranging from 47° at Scilly, Prawle Point, and Oxford, to 36° at Nairn. Maximum at Wick 16° lower than on previous day.

Wind still Southerly in south-east of England and also on eastern shores of North Sea, but North-Westerly or Northerly on our western and northern coasts; strong in force in St. George's Channel. Subsequently shifting to North in south-east.

Sea rough on exposed parts of our western coasts.

Barometer rising at all but the Scandinavian and Danish stations. Large depression lying off west of Norway, and small shallow depression passing across south of England. Rise continuing all day and extending to eastern shores of North Sea.





Sunday, March 1.

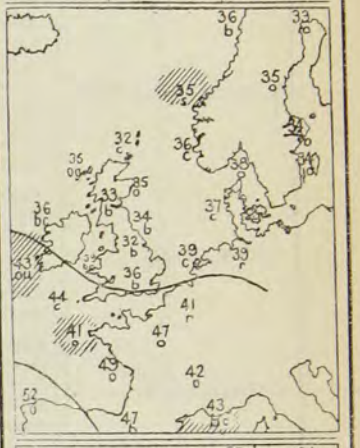
Weather dull at our extreme south-western and most of the Continental stations, but fair or fine elsewhere. Rain falling in south of Ireland later.

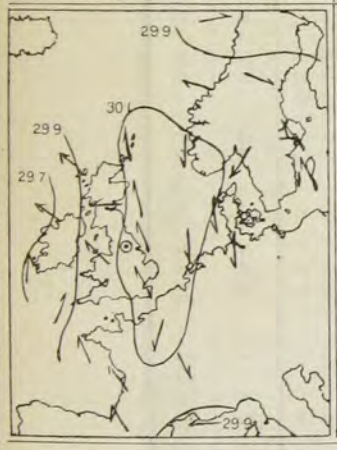
Temperature fallen generally; readings ranging from 44° at Scilly, Prawle Point, and Jersey, to 30° at Loughborough and Cambridge. Maxima below 40° in north of Scotland.

Wind light North-Westerly on our own and the eastern shores of the North Sea, but fresh Easterly or South-Easterly on our west and south-west coasts. Subsequently increasing to slight gale in south of Ireland.

Sea rough at Valencia, moderate to smooth elsewhere.

Barometer rising on all our northern and eastern coasts, but falling at our south-western and most of the Continental stations. Large band of high pressure lying over Scotland and the east of England, but new depression approaching our south-west coasts. Fall taking place in most parts of our Islands later.





Monday, March 2.

Weather dull at several of the western stations, with rain at Malin Head and Pembroke, but fair or fine elsewhere. Dull unsettled weather extending later to most parts of the kingdom.

Temperature risen slightly; readings ranging from 48° at Valencia to 32° at Nairn and 28° at Cambridge.

Wind Northerly on eastern shores of North Sea, but South-Easterly or Southerly elsewhere; strong in force on our western, and subsequently on our northern coasts.

Sea rough in the west.

Barometer rising in Scandinavia, Denmark, and the east of of France, but falling elsewhere. Large area of high pressure lying over the North Sea, our south-east coasts and the north-east of France, with depression off the west of Ireland. Fall continuing in our Islands all day.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 33 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	49	28	44·4	36·3	40·4	+ 1·4	7	22	6	0·46	−0·29	*	*
	Stornoway	49	31	45·0	37·0	41·0	+ 1·3	8	20	6	0·80	−0·11	14	20
	Wick	57	32	48·3	37·1	42·7	+ 3·8	25	14	4	0·23	−0·25	*	*
1. SCOTLAND, E.	Nairn	56	29	48·1	36·9	42·5	+ 3·0	25	14	1	0·21	−0·15	*	*
	Aberdeen	54	33	47·6	37·4	42·5	+ 3·6	23	13	4	0·17	−0·39	18	25
	Leith	55	29	49·1	38·6	43·9	+ 3·7	28	10	5	0·15	−0·20	*	*
2. ENGLAND, N.E.	Alnwick Castle	54	32	47·4	37·7	42·6	+ 3·6	22	12	2	0·13	?	*	*
	Shields	56	32	49·4	38·6	44·0	+ 4·0	28	10	1	0·02	−0·38	*	*
	Scarborough ℔	56	35	48·8	40·3	44·6	+ 4·8	25	5	3	0·17	−0·23	*	*
	York	57	29	50·9	37·3	44·1	+ 4·1	31	13	3	0·13	−0·27	14	19
	Spurn Head	51	34	46·3	38·4	42·4	+ 2·6	18	10	1	0·12	?	*	*
3. ENGLAND, E.	Hillington ℔	58	25	49·8	35·7	42·8	+ 2·6	32	18	5	0·38	−0·06	13	18
	Yarmouth	55	34	48·0	39·3	43·7	+ 2·7	23	8	6	0·58	+0·08	*	*
	Geldeston	55	32	49·1	39·1	44·1	+ 3·0	27	8	6	0·47	+0·07	23	31
	Cambridge	58	24	51·1	35·4	43·3	+ 2·5	37	18	5	0·40	+0·05	13	18
	Rothamsted	56	28	49·4	37·7	43·6	+ 2·9	29	12	6	0·61	+0·13	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	60	25	51·4	36·6	44·0	+ 3·1	37	15	2	0·04	−0·36	*	*
	Loughborough	59	28	51·0	37·7	44·4	+ 3·6	35	12	4	0·28	−0·13	*	*
	Leicester	59	29	50·1	38·9	44·5	+ 4·0	31	9	2	0·25	−0·16	13	18
	Cheadle ℔	57	29	48·2	36·7	42·5	+ 2·6	26	15	4	0·56	?	*	*
	Churchstoke ℔	59	31	50·0	39·4	44·7	+ 4·0	30	7	3	0·15	?	23	31
	Hereford ℔	59	29	51·6	39·5	45·6	+ 4·1	36	7	5	0·65	+0·17	*	*
	Cirencester	56	31	49·7	39·3	44·5	+ 3·8	29	8	4	0·63	+0·04	21	28
	Oxford	57	32	50·6	40·1	45·4	+ 4·3	32	5	5	0·93	+0·52	19	26
5. ENGLAND, S.	London†	58	30	50·9	40·3	45·6	+ 3·6	32	5	4	0·37	−0·01	12	16
	Marlborough ℔	55	32	49·1	39·7	44·4	+ 3·5	26	6	5	1·16	+0·60	17	23
	Strathfield Turgiss ℔	56	30	41·2	39·3	45·3	+ 3·3	34	8	5	0·49	+0·04	*	*
	Dungeness	51	36	49·0	41·1	45·1	+ 2·3	25	3	2	0·35	?	*	*
	Hastings (St. Leonard's)	52	36	48·3	42·0	45·2	+ 2·8	22	0	4	0·44	−0·03	22	30
	Southampton	57	33	50·9	41·6	46·3	+ 4·3	32	1	6	0·84	+0·27	17	23
	Hurst Castle	52	38	49·3	42·1	45·7	+ 2·8	26	0	6	0·75	+0·20	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	52	30	46·8	38·0	42·4	+ 2·3	20	11	6	2·03	?	*	*
	Glasgow	52	30	47·1	38·8	43·0	+ 3·1	20	9	4	0·29	−0·41	18	25
	Ardrossan	47	29	45·7	38·1	41·9	+ 1·9	10	16	4	0·35	−0·38	*	*
	Silloth (Cumberland)	52	28	48·8	39·0	43·9	+ 2·4	26	8	4	0·54	−0·06	20	27
	Douglas (Isle of Man)	51	30	46·6	39·9	43·3	+ 1·5	18	6	5	0·47	−0·36	20	27
7. ENGLAND, N.W.	Newton Reigny (Penrith)	52	25	47·0	37·2	42·1	+ 3·2	21	13	4	0·49	?	14	19
	Barrow-in-Furness	50	32	46·6	38·6	42·6	+ 0·7	18	10	4	0·87	?	*	*
	Stonyhurst	55	30	49·9	38·9	44·4	+ 4·4	30	9	4	0·38	−0·48	24	33
	Blackpool ℔	55	28	48·9	38·7	43·8	+ 2·0	26	9	4	0·45	−0·07	22	30
	Manchester	58	32	49·1	39·3	44·2	+ 3·3	27	8	3	0·26	−0·31	*	*
	Liverpool Obsy (Bidston)	59	32	50·1	40·3	45·2	+ 3·7	30	5	3	0·11	−0·30	*	*
	Llandudno ℔	57	31	51·6	40·1	45·9	+ 3·0	35	5	3	0·12	−0·41	21	28
	Holyhead	50	34	47·1	41·7	44·4	+ 1·2	18	1	4	0·65	+0·09	*	*
8. ENGLAND, S.W.	Llandovery	59	27	50·4	39·9	45·2	+ 2·6	31	6	5	1·22	?	*	*
	Pembroke	49	34	46·9	42·4	44·7	+ 0·6	19	0	5	0·92	+0·30	17	23
	Arlington (N. Devon)	58	33	49·6	40·9	45·3	+ 3·3	28	3	6	1·10	?	*	*
	Cullompton ℔	56	32	51·8	41·0	46·4	+ 4·0	35	3	5	1·10	?	12	16
	Falmouth	54	39	50·8	44·9	47·9	+ 3·6	41	0	5	1·15	+0·20	18	24
	Plymouth	55	40	51·5	45·2	48·4	+ 4·4	45	0	4	1·11	+0·38	13	17
	Prawle Point	52	39	49·4	41·9	45·7	+ 2·2	26	0	5	0·38	?	*	*
9. IRELAND, N.	Malin Head	55	36	50·1	39·7	44·9	+ 4·0	30	6	5	0·57	?	*	*
	Londonderry	59	29	51·0	38·9	45·0	+ 4·1	34	9	5	0·55	−0·10	*	*
	Mullaghmore	56	32	50·6	39·7	45·2	+ 3·8	32	6	6	0·71	?	*	*
	Belmullet	50	36	48·4	41·3	44·9	+ 1·2	23	2	6	1·42	?	*	*
	Markree Castle	55	30	49·8	37·8	43·8	+ 3·1	30	12	6	0·70	+0·07	18	25
	Brookeborough	57	26	49·4	37·8	43·6	+ 3·7	29	12	5	1·07	?	*	*
	Armagh	57	25	50·9	38·0	44·5	+ 2·8	34	11	5	0·38	−0·18	14	19
	Donaghadee	52	37	47·6	39·9	43·8	+ 1·9	21	6	4	0·39	−0·14	*	*
	Edgeworthstown	57	29	50·3	36·8	43·3	+ 2·1	33	16	5	0·60	?	*	*
10. IRELAND, S.	Dublin	58	37	52·2	43·3	47·8	+ 5·3	41	0	4	0·14	−0·37	23	31
	Parsonstown	58	32	52·0	38·9	45·5	+ 3·7	38	9	5	0·34	−0·21	17	23
	Kilkenny	55	30	50·6	38·6	44·6	+ 2·8	32	10	6	0·84	?	*	*
	Waterford	53	31	49·7	40·5	45·1	+ 1·1	28	4	5	1·92	+1·17	*	*
	Roche's Point	53	40	51·0	44·0	47·5	+ 3·1	39	0	6	1·96	+0·97	*	*
	Valencia	55	41	52·1	43·6	47·9	+ 2·6	41	0	6	2·42	+1·41	13	18
	Killarney	56	37	52·0	43·0	47·5	+ 3·5	39	0	6	2·17	?	*	*
	Foynes	58	41	56·1	43·9	50·0	+ 7·7	56	0	5	0·50	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	39	52·0	43·6	47·8	+ 1·8	41	0	6	0·71	+0·11	*	*
	Jersey (Noirmont)	53	41	49·9	43·6	46·8	+ 4·1	34	0	6	0·56	−0·04	17	23

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

(OFFICIAL COPY.)

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 10.] *New Series.* WEEK ENDING MONDAY, 9TH MARCH, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 40.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42°: For the Week.	Above 42°: Since Dec. 30/84.	Below 42°: For the Week.	Below 42°: Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	48	26	41·2	32·5	36·7	3 below.	0	27	37	327
	1. SCOTLAND, EAST	48	29	42·8	33·2	37·8	2 below.	2	49	30	369
	2. ENGLAND, N.E.	48	20	41·7	34·3	37·9	2 below.	0	79	29	290
	3. ENGLAND, EAST	55	25	46·4	32·9	39·5	1 below.	12	120	34	339
	4. MIDLAND COUNTIES	57	23	45·2	32·9	38·9	2 below.	9	119	33	341
	5. ENGLAND, SOUTH	56	24	47·2	35·2	41·0	1 below.	15	148	26	252
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	50	27	44·1	33·5	38·7	2 below.	6	68	31	276
	7. ENGLAND, N.W.*	52	26	44·1	34·9	39·4	3 below.	6	89	26	267
	8. ENGLAND, S.W.	54	24	46·9	36·5	41·5	2 below.	14	169	21	192
	9. IRELAND, NORTH	50	24	44·8	35·1	39·8	2 below.	8	136	25	244
	10. IRELAND, SOUTH *	55	23	47·4	34·9	40·9	2 below.	15	205	27	180
	— CHANNEL ISLANDS	55	37	48·5	41·4	44·8	0 (average)	22	222	2	82

	DISTRICTS. (See p. 40.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	4	3 less.	48	6·8	16	91	21	16
	1. SCOTLAND, EAST	5	4	0 (average).	37	4·5	16	113	21	19
	2. ENGLAND, N.E.	5	10	6 more.	38	3·8	11	47	14	8
	3. ENGLAND, EAST	5	6	3 more.	44	4·8	23	121	30	19
	4. MIDLAND COUNTIES	4	5	1 more.	42	5·5	22	101	28	16
	5. ENGLAND, SOUTH	4	7	3 more.	40	6·4	21	102	27	16
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	3	5	1 less.	45	9·7	25	109	32	18
	7. ENGLAND, N.W.*	5	11	6 more.	43	6·6	20	79	26	13
	8. ENGLAND, S.W.	3	4	3 less.	46	8·2	28	115	36	18
	9. IRELAND, NORTH	3	2	4 less.	46	6·9	22	148	28	24
	10. IRELAND, SOUTH *	3	4	3 less.	49	10·5	32	169	42	27
	— CHANNEL ISLANDS	5	5	1 less.	54	7·5	19	139	24	21

General Remarks.

Weather has varied considerably in different parts of the Kingdom; over northern England a good deal of rain has fallen and at many of the Scotch stations some snow showers, while over Ireland, the south-west of England, and the west of Scotland it has been comparatively dry.

Temperature has been equal to its normal value in the "Channel Islands", but from 1° to 3° below elsewhere. The maxima, which were registered in most places on the 4th, varied from 48° in the north and east of Scotland and the north-east of England, to 57° in the "Midland Counties". The minima were generally recorded on the 7th or 8th, and ranged from 23° in the "Midland Counties" and "Ireland, S.", to 29° in "Scotland, E." and "England, N.E.", and to 37° in the "Channel Islands". On the grass the minima were of course much lower, that in London during the early morning of the 8th being 15°.

Rainfall has been about equal to, or rather less than, the mean over Scotland, Ireland, the south-west of England, and the "Channel Islands", but more elsewhere. In "England, N.E." and "England, N.W" the excess was large.

Bright sunshine has been rather more prevalent in most districts than it was last week, the percentages varying from 14 in "England, N.E." to 36 in "England, S.W.", and 42 in "Ireland, S."

Depressions observed.—The changes in the distribution of pressure have been frequent and irregular. At the commencement of the period readings were highest on the Continent, while a depression was approaching Ireland from the Atlantic. On the 4th this disturbance, in conjunction with a small subsidiary depression which had formed over the Channel, resolved itself into a band, or trough, of low pressure stretching from Ireland to North Germany. By the 6th these conditions had disappeared, and an area of low pressure, having two distinct minima, was moving eastwards over the north of France. As this disturbance travelled away the barometer rose quickly and an area of comparatively high readings lay over Ireland, England, and the north of France, while a depression was moving eastwards over the north of Scandinavia. As the week drew towards its close the highest pressure was becoming established off our north-west coasts, while depressions had begun to appear over the Bay of Biscay and France. Under these conditions the winds have varied considerably. At first they were fresh or strong between south-east and south, and on the 4th Easterly in the north, and South-Westerly in the south, while during the remainder of the period they were generally from points between North-West and North-East.

* Owing to the non-arrival of the Returns from Newton Reigny and Foynes the values in these districts are liable to alteration.

ERRATA.—In the Report for the week ending February 16th the difference from the mean temperature in "Ireland, N." should be "1° above", and in "Ireland, S." "2° above."

B 16547. 400.—3/85. Wt. 24. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

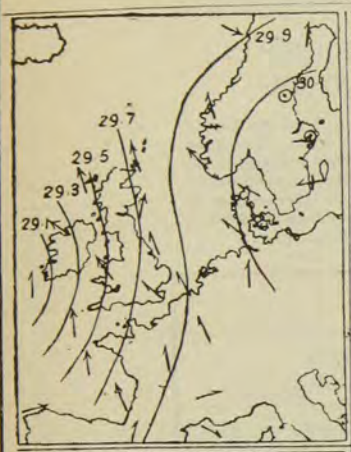
Weather

During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.



Tuesday, March 3.

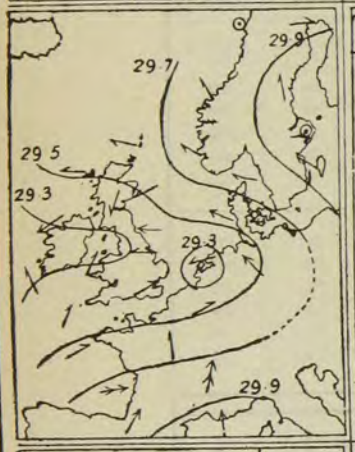
Weather fine in Sweden and the east of France, but cloudy or overcast elsewhere, with rain at several of our south-western and southern stations. Rain falling later in all parts of the Kingdom.

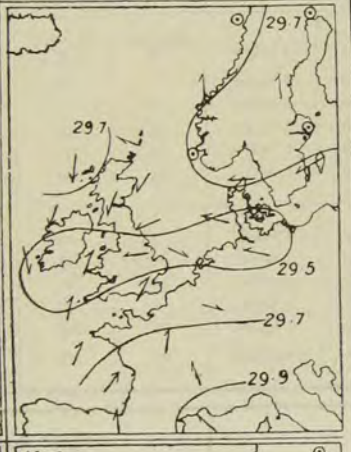
Temperature risen slightly; readings ranging from 51° at Scilly to 37° at Nairn and York and 36° at Loughborough.

Wind South-Easterly or Southerly on all coasts; strong in force in the west and south-west, but moderate in the east. Subsequently increasing to moderate gale in the north-east of England, but veering to West in south of Ireland and moderating.

Sea rough in the west and extreme north; moderate to smooth elsewhere.

Barometer falling at all but the Swedish stations. High pressure area lying over the south of Sweden, with depression off the south-west of Ireland. Centre of depression subsequently advancing over Ireland, and recovery of pressure taking place at Valencia.





Wednesday, March 4.

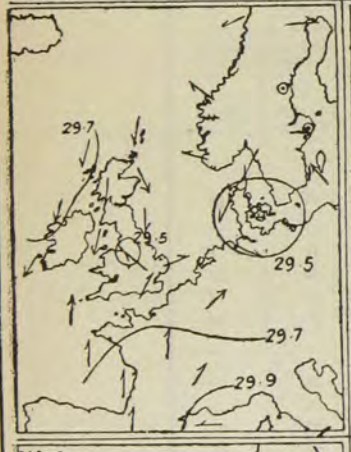
Weather fair in France and the south of England, but dull elsewhere, with rain in many places and fog on our east coast. Rain falling later at most stations—heavily at Barrow-in-Furness.

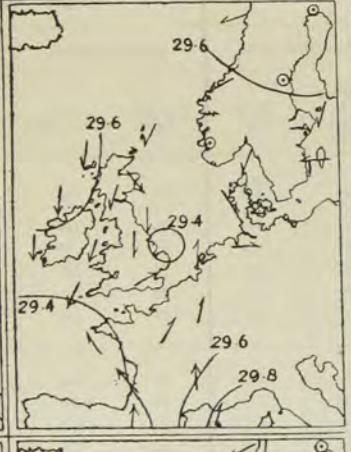
Temperature fallen a little at some of the Irish and Scotch stations, but risen elsewhere; readings ranging from 49° at Scilly to 34° at Nairn. Subsequently rising to 55° at Roche's Point, Scilly, and Cambridge, and 56° in London.

Wind Easterly at all our more northern stations as well as on the eastern shores of the North Sea, but Westerly or South-Westerly on our southern and the French coasts; moderate or fresh in force generally, but strong in the north of Ireland. Subsequently backing to North-East in the north.

Sea rough in the west and north-east; moderate to smooth elsewhere.

Barometer rising in the west and south, but falling in all other localities. Pressure relatively high over Sweden and the south of France, with large shallow area of low readings over Ireland and small depression over the north of Holland. Rise of barometer extending later to our north and east coasts.





Thursday, March 5.

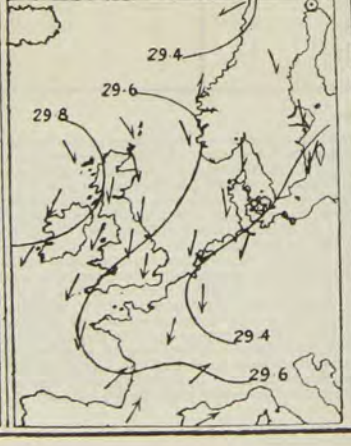
Weather fair in Ireland but cloudy or overcast elsewhere, with rain in several places, snow in Norway and Denmark, and sleet showers at Aberdeen. Snow falling later in Scotland and the east of England.

Temperature fallen a little; readings ranging from 48° at Scilly to 35° at Sumburgh Head and Nairn.

Wind South-Westerly at our southern and the French stations, but Northerly or North-Easterly on our western and northern coasts; fresh or strong in force in Ireland, but light or moderate elsewhere. Subsequently backing to South-East in the west of France.

Sea rough on our western coasts.

Barometer rising in our Islands, but falling at most of the Continental stations. Pressure highest in the south of France, and relatively high to the north-westward of our Islands, with shallow depressions over England and the North Sea. General fall taking place later, and new depression advancing towards the Bay of Biscay.



Friday, March 6.

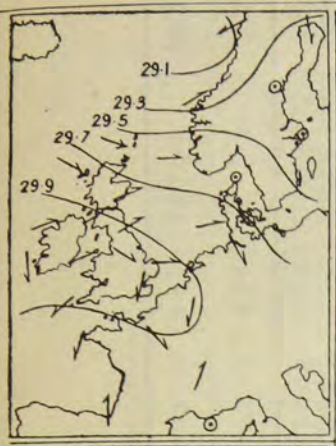
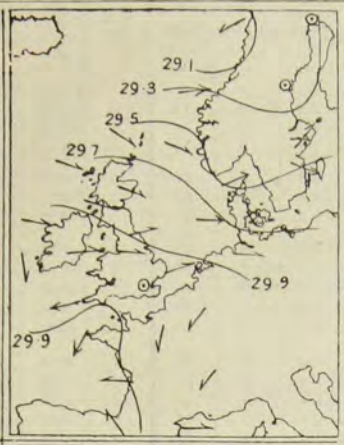
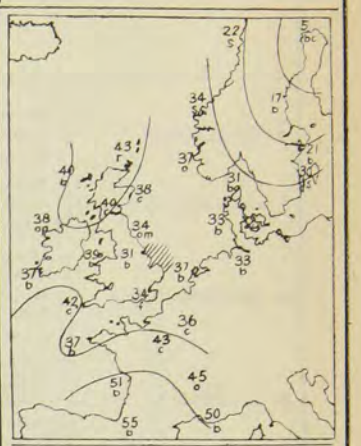
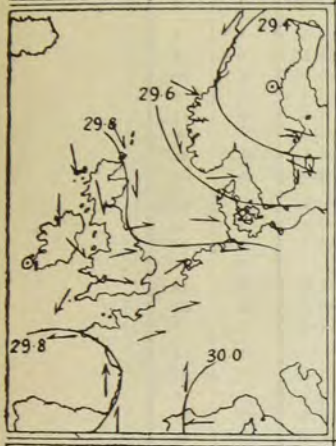
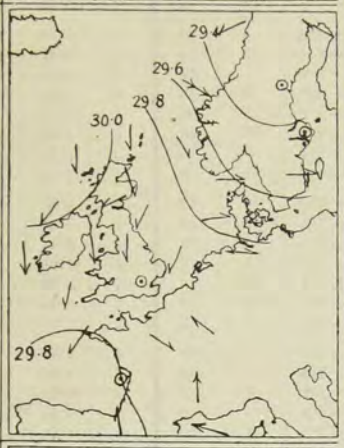
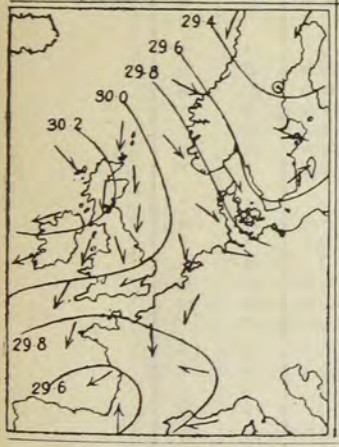
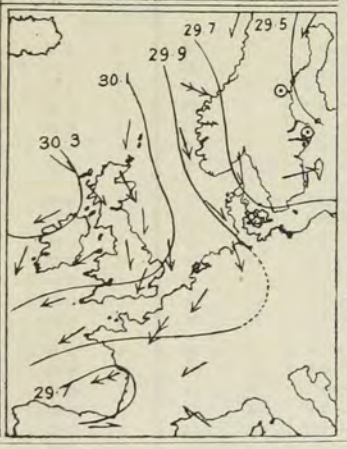
Weather cloudy or overcast at all but the western stations, with rain in the north of France, and cold showers on our north-east coasts. Rain and sleet falling later in south-east of England.

Temperature fallen in most places; readings ranging from 43° at Scilly to 34° at Sumburgh Head and 29° at Parsonstown. Frost occurring at the inland stations at night.

Wind South-Westerly in the south of France, but Northerly or North-Easterly elsewhere; strong in force in several parts of England, Ireland, and France. Subsequently increasing to fresh gale on the Norfolk coast.

Sea rough on exposed parts of our eastern and western coasts.

Barometer falling at all but the extreme northern stations. Pressure relatively high in south-east of France and north-west of Scotland, but large area of low readings with two distinct minima passing across the north of France. Brisk rise taking place generally later.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather during the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, March 7.** *Weather* fair in most parts of western Europe, but snow falling in the west of Norway and cold showers in the north of Scotland. Intermittent fogs in the south-east of England. *Temperature* fallen at all but our northern stations; readings ranging from 43° in the Shetlands and 42° at Scilly to 27° at Parsonstown. Sharp frost over England at night. Thermometer on grass in London falling to 15°. *Wind* North-Easterly in the south of our Islands and north of France, but Westerly or North-Westerly elsewhere; light or moderate in force generally. *Sea* moderate to smooth in nearly all places. *Barometer* falling in Scandinavia and the north of Scotland, but rising elsewhere. Anticyclone, with readings above 30·0 ins., lying over Ireland, and large depression off the west of Norway. Slight fall taking place in most places later.	
		**Sunday, March 8.** *Weather* fair on the whole but much cloud locally, and rain in the north of England. Slight rain falling later in most parts of the United Kingdom. *Temperature* risen at all but our extreme northern and southern stations; readings ranging from 44° at Belmullet to 29° at Sumburgh Head. Frost occurring in many places at night. *Wind* Northerly in Ireland and Scotland and North-Westerly on the eastern shores of the North Sea, but Easterly in the south of England and Southerly in the south of France; light or moderate in force generally. *Sea* moderate to smooth. *Barometer* falling generally. Pressure relatively high in the south-east of France and also off the west of Ireland, but large depressions shown over the north of Sweden and Bay of Biscay. Rise taking place in west and north later.	
		**Monday, March 9.** *Weather* fine in England and Ireland, but snow showers falling in Scotland, and rain at one or two of the French stations. Showers of sleet falling later in east of England. *Temperature* fallen in the north, but risen a little in the south; readings ranging from 44° at Scilly to 31° at Stornoway. Frost occurring at most of the inland stations at night. *Wind* North-Westerly in Scotland, and also on the Eastern shores of the North Sea, but Easterly or North-Easterly elsewhere; strong in force over the Channel and Bay of Biscay. *Sea* rather rough in the Channel, and also at Valencia; moderate to smooth elsewhere. *Barometer* falling briskly in France, but rising in our islands and Scandinavia. Anticyclone, with readings above 30·2 ins., appearing over our north-west coasts, and depression, with readings below 29·6 ins., over the southern part of the Bay of Biscay. Depression subsequently moving away, and rise of barometer becoming general.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 37 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	45	26	40·1	31·6	35·7	− 3·2	0	44	6	0·47	−0·18	*	*
	Stornoway	48	29	43·0	32·7	37·7	− 2·1	3	32	5	0·38	−0·51	16	21
	Wick	44	32	40·6	33·3	36·8	− 2·1	0	36	5	0·33	−0·07	*	*
1. SCOTLAND, E.	Nairn	47	31	41·7	33·1	37·2	− 2·5	0	34	5	0·61	+0·25	*	*
	Aberdeen	48	30	42·6	33·6	38·0	− 0·9	2	29	6	0·35	−0·15	16	21
	Leith	48	29	44·0	33·0	38·3	− 2·3	6	32	4	0·26	−0·06	*	*
2. ENGLAND, N.E.	Alnwick Castle	45	30	40·1	34·1	37·0	− 2·4	0	35	3	1·18	?	*	*
	Shields	46	30	42·1	33·6	37·7	− 2·4	0	28	7	0·90	+0·55	*	*
	Scarborough ℜ	48	33	41·6	35·7	38·6	− 1·1	0	24	5	0·90	+0·50	*	*
	York	48	29	43·6	32·6	37·9	− 2·3	4	33	6	0·98	+0·59	11	14
	Spurn Head	43	33	41·3	35·6	38·4	− 1·5	0	25	6	0·80	?	*	*
3. ENGLAND, E.	Hillington ℜ	54	28	47·2	33·6	40·2	0·0	15	32	5	0·64	+0·27	22	29
	Yarmouth	48	30	44·6	34·1	39·2	− 1·8	7	28	6	0·58	+0·13	*	*
	Geldeston	54	30	46·7	34·1	40·2	− 0·8	13	30	4	0·50	+0·13	26	33
	Cambridge	55	26	47·4	30·9	39·1	− 1·7	15	42	4	0·67	+0·34	21	27
	Rothamsted	53	25	46·1	31·9	38·8	− 2·2	11	37	6	0·79	+0·39	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	48	29	43·1	33·3	38·0	− 3·0	3	30	5	0·72	+0·34	*	*
	Loughborough	54	28	45·4	32·6	38·8	− 2·0	10	34	5	0·44	+0·06	*	*
	Leicester	53	29	46·1	33·5	39·6	− 0·9	11	31	6	0·46	+0·08	17	22
	Cheadle ℜ	52	29	42·9	32·4	37·5	− 2·2	3	33	4	0·54	?	*	*
	Churchstoke ℜ	51	25	43·7	31·9	37·6	− 3·1	5	35	3	0·45	?	16	21
	Hereford ℜ	57	25	48·1	33·4	40·6	− 0·7	17	33	3	0·39	−0·03	*	*
	Cirencester	52	23	45·3	32·4	38·7	− 2·3	9	35	4	0·37	−0·14	28	36
	Oxford	54	27	47·0	33·9	40·2	− 1·4	14	30	2	0·47	+0·09	25	32
5. ENGLAND, S.	London†	56	26	46·9	33·4	40·0	− 2·0	14	32	3	0·60	+0·27	11	14
	Marlborough ℜ	54	24	46·2	32·6	39·2	− 1·8	12	34	2	0·50	−0·02	24	31
	Strathfield Turgiss ℜ	54	24	45·6	31·5	38·4	− 3·4	10	38	4	0·85	+0·47	*	*
	Dungeness	50	31	48·3	36·7	42·3	− 0·7	24	15	6	0·61	?	*	*
	Hastings (St. Leonard's)	51	34	47·4	38·4	42·7	+ 0·3	20	10	5	0·76	+0·34	25	32
	Southampton	55	29	48·8	36·2	42·3	− 0·1	26	16	4	0·94	+0·44	24	31
	Hurst Castle	50	33	46·9	37·9	42·3	− 0·8	19	11	3	0·87	+0·40	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	47	27	44·2	32·7	38·3	− 1·9	6	33	4	0·14	?	*	*
	Glasgow	47	29	44·1	33·0	38·4	− 1·9	6	32	2	0·17	−0·49	20	26
	Ardrossan	49	27	44·7	32·9	38·6	− 1·7	8	32	2	0·12	−0·53	*	*
	Silloth (Cumberland)	50	29	43·8	34·1	38·8	− 2·9	5	28	4	0·84	+0·34	23	30
	Douglas (Isle of Man)	47	29	43·7	35·0	39·2	− 2·7	5	25	4	1·18	+0·47	31	40
7. ENGLAND, N.W.	Newton Reigny (Penrith)													
	Barrow-in-Furness	47	31	44·0	34·1	38·9	− 3·0	6	28	4	2·53	?	*	*
	Stonyhurst	47	28	44·5	32·8	38·5	− 1·8	7	33	5	1·01	+0·22	17	22
	Blackpool ℜ	45	26	43·0	33·3	38·0	− 3·9	3	30	5	1·11	+0·63	23	30
	Manchester	52	28	43·4	33·9	38·5	− 2·5	4	28	6	0·83	+0·29	*	*
	Liverpool Obsy (Bidston)	49	32	44·0	35·3	39·5	− 2·3	6	24	5	0·79	+0·39	*	*
	Llandudno ℜ	50	31	45·3	36·9	40·9	− 2·1	9	19	5	0·71	+0·24	20	26
	Holyhead	49	35	44·7	37·9	41·2	− 2·2	8	16	5	0·86	+0·36	*	*
8. ENGLAND, S.W.	Llandovery	52	24	45·6	32·1	39·2	− 3·5	13	37	3	0·60	?	*	*
	Pembroke	49	34	45·1	37·6	41·2	− 3·1	9	17	3	0·52	−0·08	34	44
	Arlington (N. Devon)	52	26	45·7	34·7	40·0	− 1·8	10	27	4	0·82	?	*	*
	Cullompton ℜ	54	25	48·1	34·1	40·9	− 1·6	17	31	3	0·42	?	22	28
	Falmouth	54	36	47·9	40·0	43·8	− 0·8	21	6	2	0·14	−0·71	33	42
	Plymouth	54	33	48·8	38·8	43·7	− 0·4	25	9	2	0·24	−0·39	23	29
	Prawle Point	52	34	46·4	37·9	42·0	− 1·7	12	11	4	0·10	?	*	*
9. IRELAND, N.	Malin Head	47	35	44·7	37·0	40·7	− 0·3	8	18	4	0·21	?	*	*
	Londonderry	48	30	45·7	34·9	40·1	− 0·9	10	26	2	0·13	−0·49	*	*
	Mullaghmore	48	35	44·7	38·3	41·4	− 0·4	8	14	4	0·13	?	*	*
	Belmullet	48	34	44·9	38·4	41·5	− 2·9	8	14	5	0·36	?	*	*
	Markree Castle	47	24	45·2	32·5	38·7	− 2·6	9	34	5	0·13	−0·45	23	30
	Brookeborough	47	25	44·2	32·0	37·9	− 2·1	6	35	1	0·04	?	*	*
	Armagh	50	27	44·4	32·4	38·2	− 3·6	7	34	3	0·11	−0·39	20	26
	Donaghadee	49	32	44·3	36·6	40·2	− 2·1	6	19	4	0·50	+0·05	*	*
	Edgeworthstown	48	26	44·9	34·0	39·3	− 2·4	8	29	3	0·08	?	*	*
10. IRELAND, S.	Dublin	48	31	45·5	36·5	40·9	− 1·6	10	21	4	0·61	+0·18	26	34
	Parsonstown	52	25	45·9	32·6	39·1	− 2·8	11	35	3	0·47	−0·08	27	35
	Kilkenny	55	27	46·9	35·0	39·7	− 2·1	14	33	4	0·29	?	*	*
	Waterford	54	23	47·1	33·1	39·9	− 3·9	14	33	4	0·31	−0·40	*	*
	Roche's Point	53	32	49·4	37·6	43·3	− 1·1	28	12	1	0·15	−0·75	*	*
	Valencia	53	33	48·9	38·6	43·6	− 1·7	25	10	2	0·20	−0·72	44	56
	Killarney	55	25	47·8	32·6	40·0	− 3·9	16	36	2	0·54	?	*	*
	Foynes												*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	38	49·3	41·6	45·3	− 0·9	25	1	3	0·11	−0·47	*	*
	Jersey (Noirmont)	51	37	47·6	41·1	44·3	+ 1·3	20	3	7	0·92	+0·36	19	24

Stations marked ℜ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 11.] *New Series.* WEEK ENDING MONDAY, 16TH MARCH, 1885. [*Price* 4*d.* [*Annual subscription, post paid,* £1 1*s.* 2*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 44.)	Temperature of the Air.								
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.		
				Averages of				Above 42°		Below 42°
		Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.		For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	29	47·9	36·6	42·1	3 above.	23	50	15	342
	1. SCOTLAND, EAST	54	28	50·6	34·2	42·2	2 above.	34	83	22	391
	2. ENGLAND, N.E.	55	27	47·9	34·1	40·8	1 above.	17	96	30	320
	3. ENGLAND, EAST	54	25	47·1	31·7	39·2	2 below.	14	134	38	377
	4. MIDLAND COUNTIES	56	24	48·1	31·8	39·7	1 below.	17	136	38	379
	5. ENGLAND, SOUTH	54	25	47·6	32·4	39·7	3 below.	16	164	35	287
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	53	29	48·3	33·5	40·7	0 (average)	18	86	33	309
	7. ENGLAND, N.W.	55	26	47·1	33·2	39·9	2 below.	14	101 *	33	301 *
	8. ENGLAND, S.W.	55	22	47·3	33·4	40·1	3 below.	15	184	32	224
	9. IRELAND, NORTH	54	20	48·5	30·1	39·0	3 below.	18	154	44	288
	10. IRELAND, SOUTH	55	22	48·7	31·2	39·7	4 below.	19	225 *	41	223 *
	— CHANNEL ISLANDS	49	36	46·0	38·7	42·1	2 below.	15	237	9	91

	DISTRICTS. (See p. 44.)	Rainfall.					Bright Sunshine.			
		For the Week.			Since Dec. 30/84.		Hours recorded.		Percentage of the possible Duration.	
		Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Number of Rainy Days.	Total Fall.	For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	4	2 less.	51	7·2	19	110	24	17
	1. SCOTLAND, EAST	1	1	3 less.	38	4·6	32	145	40	21
	2. ENGLAND, N.E.	0	–	4 less.	38	3·8	21	68	26	10
	3. ENGLAND, EAST	0	–	4 less.	44	4·8	30	151	37	21
	4. MIDLAND COUNTIES	0	–	4 less.	42	5·5	26	127	33	18
	5. ENGLAND, SOUTH	0	–	4 less.	40	6·4	26	128	32	18
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	2	2	5 less.	47	9·9	29	138	37	20
	7. ENGLAND, N.W.	1	less than ½	5 less.	44	6·7 *	30	107 *	37	15 *
	8. ENGLAND, S.W.	0	–	7 less.	46	8·2	37	152	46	21
	9. IRELAND, NORTH	1	1	5 less.	47	7·0	29	177	36	25
	10. IRELAND, SOUTH	0	–	7 less.	49	10·4 *	40	209	49	29
	— CHANNEL ISLANDS	0	–	6 less.	54	7·5	57	196	70	26

General Remarks.

Weather has been finer than for many weeks past, though a good deal of haze or fog has prevailed. Some showers occurred in the extreme north and north-west towards the end of the period, while over Scotland and in some parts of England there was a brilliant display of aurora on the night of the 15th.

Temperature has been 3° above the mean in "Scotland, N.", 2° in "Scotland, E.", 1° in "England, N.E.", and about equal to its normal value in "Scotland, W.", but in Ireland and the other parts of England it has varied from 1° to 4° below. The maxima were generally registered on the 15th or 16th, and ranged from 49° in the "Channel Islands" and 51° in "Scotland, N.", to 56° in the "Midland Counties". The minima, which were recorded on different days in the various districts, were low for the season over England and Ireland; in "Ireland, N." the thermometer fell to 20°, in "England, S.W.", and "Ireland, S." to 22°, while elsewhere the readings ranged from 24° in the "Midland Counties" to 29° in the north and west of Scotland, and to 36° in the "Channel Islands". Over Ireland and the south-west of England the diurnal range was very large.

Rainfall has been less than the mean in all districts. Over the greater part of the Kingdom the weather has been altogether rainless, but at several stations the depositions of fog or mist have been sufficient for measurement.

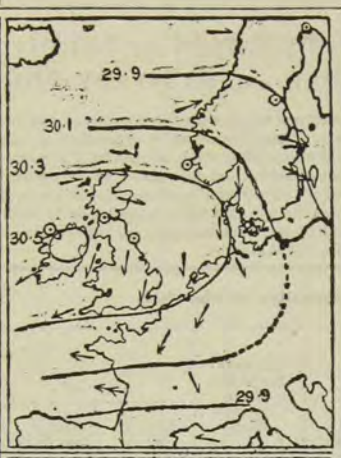
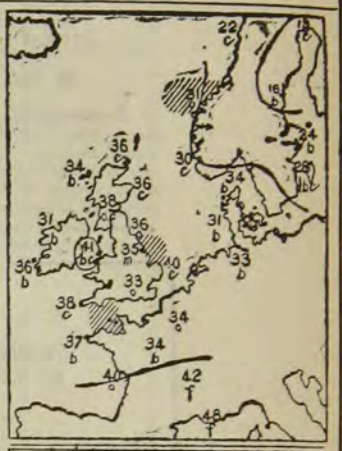
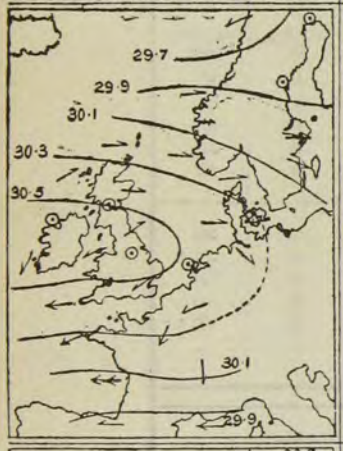
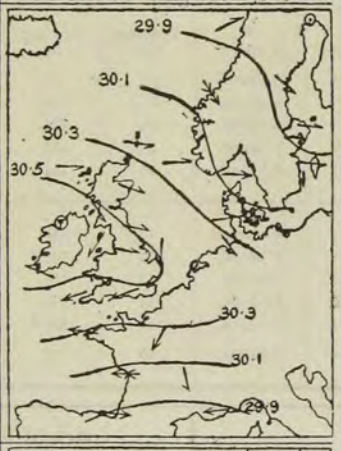
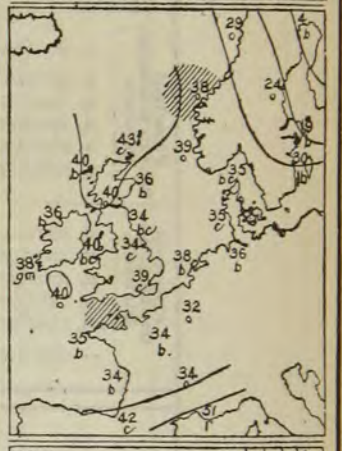
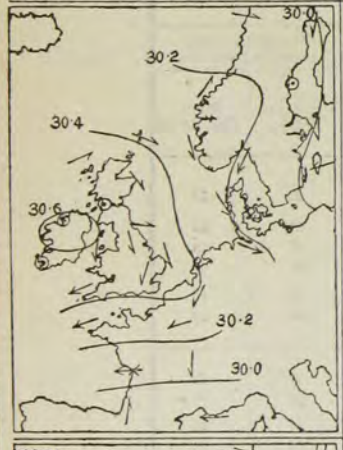
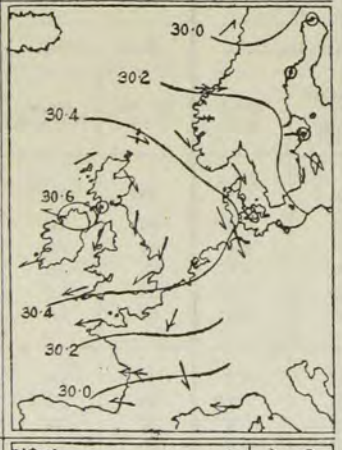
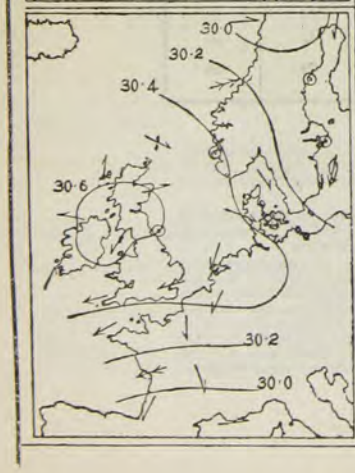
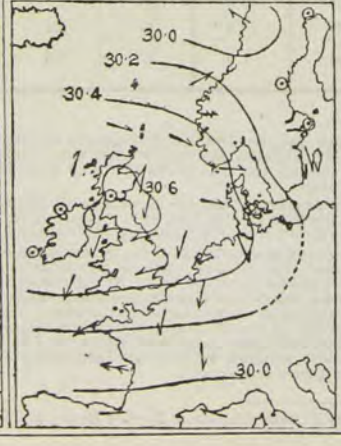
Bright sunshine shows an increase in all districts, the percentages of possible duration varying from 24 in "Scotland, N." and 26 in "England, N.E.", to 49 in "Ireland, S." and 70 in the "Channel Islands".

Depressions observed.—With the exception of one or two disturbances passing over the extreme north of Scandinavia, depressions have been altogether absent from our area. At the end of the period, however, the anticyclone, which had hitherto prevailed over our Islands, was breaking up and depressions were apparently approaching our northern coasts from the westward. Light Westerly airs have been general over the greater part of Scotland, and moderate to fresh Easterly and North-Easterly winds over our southern counties, while in the intervening districts variable airs or calms have been experienced.

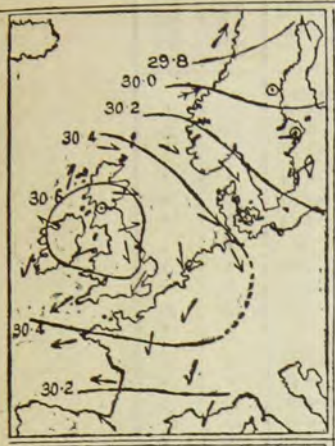
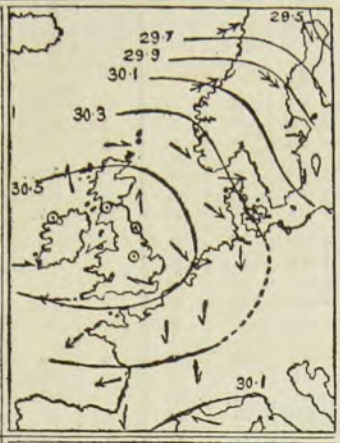
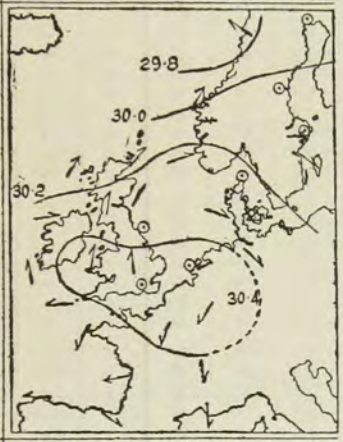
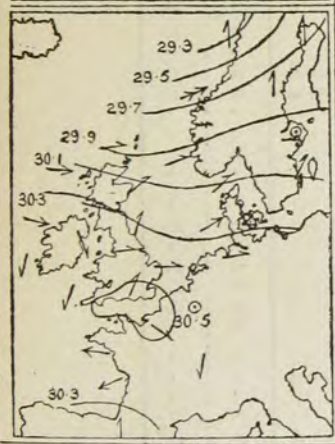
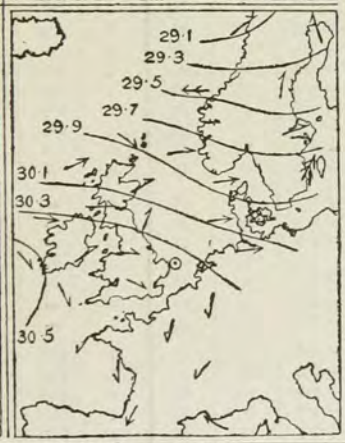
* These values have been altered somewhat owing to the receipt of arrears of observations from Newton Reigny and Foynes.

B 16683. 400.—3/85. Wt. 24. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, March 10.** *Weather* fair generally, but with mist or fog locally. *Temperature* risen a little in the north, but fallen in the south; readings ranging from 41° at Donaghadee and Holyhead and 40° at Yarmouth to 24° at Parsonstown. Slight frost at night in many parts of the Kingdom. *Wind* light Westerly in Scotland and moderate North-Westerly in Scandinavia and Denmark, but fresh or strong from North-East or East at our southern and the French stations. *Sea* rather rough at Spurn Head and Prawle Point; moderate to smooth elsewhere. *Barometer* rising generally. Large anticyclone over our Islands, with relatively low pressures over Russia and the south of France. Rise continuing slowly all day.	
		**Wednesday, March 11.** *Weather* dull in Norway and the south-west of our Islands, but fair or fine elsewhere. Snow and rain falling in Scandinavia during latter part of day. *Temperature* risen slightly; readings ranging from 43° at Sumburgh Head to 26° at Parsonstown. Frost occurring at night in most in most parts of the Kingdom. *Wind* moderate Westerly in Scotland and also on the eastern shores of the North Sea, but strong from East or North-East over the Channel and France. *Sea* rather rough in the western part of the Channel; moderate to smooth elsewhere. *Barometer* still rising at all but the Norwegian stations. Large anticyclone lying over our Islands, with depression off the west of Norway. Depression subsequently moving away, and recovery of pressure taking place in Scandinavia.	
		**Thursday, March 12.** *Weather* fair in all parts of western Europe, but mist or fog reported locally. *Temperature* changed little and irregularly; readings ranging from 45° at Sumburgh Head to 31° at Cambridge and 25° at Parsonstown. *Wind* light Westerly or North-Westerly in Scotland and strong Northerly in Denmark, but still moderate to strong from East or North-East at our southern and the French stations. *Sea* rather rough in the western part of the Channel. *Barometer* falling a little in Denmark and the Netherlands, but rising elsewhere. Large anticyclone still lying over our Islands, and readings in Ireland exceeding 30·6 ins. Slight fall taking place on our south-west coasts later.	
		**Friday, March 13.** *Weather* cloudy, with local mists over Great Britain, but fine at the Irish and Continental stations. Sky subsequently clearing in Scotland. *Temperature* risen slightly; readings ranging from 45° at Sumburgh Head to 29° at Parsonstown. Frost occurring in many parts of Great Britain at night. *Wind* scarcely changed. Light Westerly in Scotland, moderate North-Westerly on eastern shores of North Sea, and fresh or strong from East or North-East at our southern and the French stations. *Sea* rather rough in the western part of the Channel. *Barometer* rising a little in nearly all parts of western Europe. Anticyclone still lying over our Islands, with relatively low pressures in Scandinavia and the South of France. Slight fall taking place at most stations later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, March 14.** *Weather* fair in all parts of our Islands and France, but overcast in Scandinavia, with snow at Haparanda and rain at Christiansund and Bodö. *Temperature* fallen several degrees in north, but risen slightly elsewhere; readings ranging from 45° at Sumburgh Head and Wick to 29° at Parsonstown. Sharp frost occurring over central England at night. *Wind* South-Westerly in Scotland and the west of Norway and North-Westerly in Denmark, but fresh or strong from East and North-East at our southern and the French stations. Subsequently falling very light in all parts of our Islands. *Sea* rather rough in the western part of the Channel, moderate to smooth elsewhere. *Barometer* falling in the extreme north, but rising in the south. Large anticyclone still lying over the United Kingdom, but depression appearing near Bodö. Fall spreading southwards later.	
		**Sunday, March 15.** *Weather* dull in Norway and the north of Scotland, but fine elsewhere, with, however, a good deal of fog over England. Brilliant aurora seen in many parts of Great Britain at night. *Temperature* risen a little in the west and south; readings ranging from 45° at Scilly to 26° at Loughborough. *Wind* light South-Westerly in Scotland but North-Westerly on the eastern shores of the North Sea and North-Easterly at our southern and the French stations. Light or moderate breezes from South-West or South setting in on all our western and northern coasts later. *Sea* slight or smooth on the coasts of the British Islands, but rather rough at Christiansund. *Barometer* falling at all but the French stations, most in Scotland. Anticyclone still holding over our Islands. Depression appearing on Norwegian coasts later, and anticyclone moving slowly southwards.	
		**Monday, March 16.** *Weather* rainy in the west of Norway, and showery in the north of Scotland, but fine elsewhere, with local fogs. Aurora seen at Aberdeen in evening. *Temperature* fallen a little in the extreme north, but risen elsewhere; readings ranging from 46° at Scilly to 33° in London. *Wind* still Easterly in France, but variable on our Southern coasts, and Westerly or South-Westerly elsewhere; moderate or fresh in force generally. Subsequently increasing to strong breeze on our north and north-east coasts. *Sea* rather rough at Malin Head, moderate to smooth elsewhere. *Barometer* rising at our western, southern, and the French stations, but falling in the north and east. Remains of old anticyclone now lying over the Channel, but new one appearing over south of Ireland, and large depression shown off west of Norway. Fall extending to our western and southern stations later.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟹ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 41 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	49	30	46·9	38·1	42·4	+ 3·5	19	11	5	0·68	+0·07	*	*
	Stornoway	51	29	48·6	36·0	42·1	+ 2·0	26	17	2	0·47	−0·39	19	24
	Wick	51	32	48·3	35·7	41·8	+ 2·8	18	25	3	0·14	−0·26	*	*
1. SCOTLAND, E.	Nairn	53	30	49·4	35·3	42·1	+ 2·2*	29	19	2	0·16	−0·19	*	*
	Aberdeen	53	30	51·1	33·7	42·2	+ 3·1	36	23	2	0·03	−0·45	32	40
	Leith	54	28	51·3	33·6	42·3	+ 1·5	37	24	0	—	−0·29	*	*
2. ENGLAND, N.E.	Alnwick Castle	48	29	46·9	34·9	40·7	+ 1·0	14	27	0	—	?	*	*
	Shields	52	32	49·6	33·1	41·1	+ 0·9	21	35	0	—	−0·33	*	*
	Scarborough ⚓	52	35	47·4	36·2	41·6	+ 1·7	15	23	0	—	−0·40	*	*
	York	55	27	50·1	30·3	39·9	− 0·4	23	45	1	0·01	−0·34	21	26
	Spurn Head	50	34	45·6	36·0	40·7	+ 0·5	10	23	0	—	?	*	*
3. ENGLAND, E.	Hillington ⚓	53	25	48·3	30·7	39·2	− 0·9	18	42	0	—	−0·32	32	40
	Yarmouth	49	31	44·7	34·6	39·5	− 1·5	8	27	1	0·01	−0·41	*	*
	Geldeston	53	27	47·0	32·5	39·3	− 1·6	14	35	1	0·01	−0·37	32	40
	Cambridge	54	25	49·1	29·9	39·2	− 1·9	20	45	0	—	−0·32	25	31
	Rothamsted	52	26	46·6	31·0	38·6	− 2·5	13	40	0	0·02§	−0·36	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	53	28	48·7	32·3	40·3	− 0·9	19	37	0	—	−0·35	*	*
	Loughborough	53	24	49·1	30·9	39·7	− 1·2	20	42	0	—	−0·35	*	*
	Leicester	55	26	49·1	32·8	40·7	+ 0·1	20	35	0	—	−0·36	22	27
	Cheadle ⚓	50	28	46·6	32·7	39·4	− 0·4	13	34	0	—	?	*	*
	Churchstoke ⚓	54	26	46·9	30·0	38·2	− 2·5	14	44	0	—	?	26	32
	Hereford ⚓	56	29	49·1	33·0	40·8	− 0·8	20	35	0	—	−0·40	*	*
	Cirencester	51	25	46·6	30·7	38·4	− 2·9	13	41	0	—	−0·50	29	36
	Oxford	53	29	48·4	32·3	40·1	− 1·7	18	37	0	—	−0·35	28	35
5. ENGLAND, S.	London†	51	27	47·4	32·1	39·3	− 3·0	15	35	0	—	−0·32	11	14
	Marlborough ⚓	53	25	46·7	29·5	37·8	− 3·5	13	45	0	—	−0·49	27	33
	Strathfield Turgiss ⚓	54	25	49·2	30·6	39·6	− 1·7	20	43	0	—	−0·35	*	*
	Dungeness	48	32	46·6	33·9	40·1	− 3·1	13	31	0	—	?	*	*
	Hastings (St. Leonard's)	53	32	48·0	35·7	41·7	− 1·2	17	25	0	—	−0·41	33	41
	Southampton	54	29	48·8	32·0	40·2	− 2·7	19	38	0	—	−0·45	32	40
	Hurst Castle	49	30	46·6	33·1	39·7	− 3·7	13	33	0	—	−0·42	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	50	32	48·6	36·4	42·3	+ 2·0	26	16	2	0·58	?	*	*
	Glasgow	49	30	47·4	34·5	40·8	+ 0·4	15	29	2	0·29	−0·31	18	23
	Ardrossan	49	31	48·6	33·3	40·7	0·0	18	33	2	0·14	−0·47	*	*
	Silloth (Cumberland)	53	29	48·8	31·2	39·7	− 2·2	19	40	1	0·06	−0·39	34	43
	Douglas (Isle of Man)	51	29	48·0	32·1	39·8	− 2·3	17	37	1	0·01	−0·66	36	45
7. ENGLAND, N.W.	Newton Reigny (Penrith)	51	26	46·8	28·4	37·3	− 2·5	13	49	1	0·03	?	27	34
	Barrow-in-Furness	55	33	48·7	34·1	41·2	− 1·0	19	31	0	—	?	*	*
	Stonyhurst	50	29	48·3	31·2	39·5	− 1·2	18	40	2	0·07	−0·63	25	31
	Blackpool ⚓	51	26	46·4	30·1	38·0	− 4·4	12	43	1	0·01	−0·44	33	41
	Manchester	51	29	47·3	32·5	39·7	− 1·6	15	36	2	0·02	−0·51	*	*
	Liverpool Obsy (Bidston)	49	33	45·9	36·0	40·8	− 1·2	11	23	1	0·01	−0·38	*	*
	Llandudno ⚓	50	32	46·3	35·4	40·7	− 2·5	12	25	0	—	−0·44	35	43
	Holyhead	49	35	46·7	38·0	42·2	− 1·5	18	11	0	—	−0·47	*	*
8. ENGLAND, S.W.	Llandovery	55	25	49·9	29·3	39·3	− 3·5	22	48	0	—	?	*	*
	Pembroke	50	32	46·4	35·0	40·5	− 3·9	12	26	0	—	−0·56	47	58
	Arlington (N. Devon)	49	28	45·9	30·7	38·1	− 3·8	11	41	0	—	?	*	*
	Cullompton ⚓	53	22	47·7	29·4	38·3	− 4·4	16	46	0	—	?	29	36
	Falmouth	49	34	46·0	38·0	41·9	− 2·9	11	16	0	—	−0·80	30	37
	Plymouth	53	31	49·1	34·8	41·7	− 2·7	20	28	0	—	−0·60	42	52
	Prawle Point	52	35	46·1	36·4	41·1	− 2·8	11	21	0	—	?	*	*
9. IRELAND, N.	Malin Head	52	35	48·6	36·1	42·2	+ 0·8	26	17	3	0·08	?	*	*
	Londonderry	54	29	49·8	31·9	40·6	− 0·5	22	39	2	0·07	−0·53	*	*
	Mullaghmore	51	27	47·7	32·1	39·7	− 2·5	16	37	2	0·06	?	*	*
	Belmullet	50	30	47·7	33·1	40·2	− 4·7	16	34	2	0·15	?	*	*
	Markree Castle	52	20	48·2	24·7	36·1	− 5·7	17	62	2	0·07	−0·49	33	41
	Brookeborough	54	22	49·2	25·0	36·7	− 3·6	20	62	0	—	?	*	*
	Armagh	52	25	48·6	28·7	38·4	− 3·5	18	49	0	0·01§	−0·46	25	31
	Donaghadee	51	28	47·9	32·0	39·7	− 3·2	17	37	0	—	−0·42	*	*
	Edgeworthstown	53	23	48·6	27·6	37·8	− 4·3	18	53	0	—	?	*	*
10. IRELAND, S.	Dublin	50	29	47·6	31·8	39·5	− 3·3	16	38	0	—	−0·40	41	51
	Parsonstown	55	22	49·0	25·4	36·9	− 5·4	20	61	0	—	−0·55	38	47
	Kilkenny	54	24	47·9	27·4	37·4	− 4·6	17	53	0	—	?	*	*
	Waterford	52	26	48·1	32·2	39·9	− 4·1	17	37	0	—	−0·70	*	*
	Roche's Point	52	32	48·6	35·9	42·1	− 2·3	26	17	0	—	−0·90	*	*
	Valencia	54	30	50·0	34·0	41·8	− 3·7	22	32	1	0·04	−0·84	40	50
	Killarney	53	23	48·6	27·3	37·6	− 6·7	18	54	0	0·03§	?	*	*
	Foynes	52	32	49·6	35·6	42·4	− 0·7	30	18	2	0·09	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	49	36	46·6	39·6	43·0	− 3·4	17	7	0	—	−0·56	*	*
	Jersey (Noirmont)	48	36	45·4	37·7	41·2	− 2·2	10	15	0	—	−0·55	57	70

Stations marked ⚓ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Fog or mist.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 12.] *New Series.* WEEK ENDING MONDAY, 23RD MARCH, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 48.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	48	25	42·0	30·7	36·2	3 below.	0	50	41	383
	1. SCOTLAND, EAST	53	27	46·8	32·3	39·3	1 below.	13	96	36	427
	2. ENGLAND, N.E.	58	28	46·4	33·2	39·6	1 below.	12	108	32	352
	3. ENGLAND, EAST	60	25	48·9	32·3	40·4	1 below.	19	153	37	414
	4. MIDLAND COUNTIES	59	25	48·4	32·6	40·3	1 below.	18	154	36	415
	5. ENGLAND, SOUTH	62	27	48·8	34·2	41·3	2 below.	19	183	31	318
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	52	26	46·2	34·0	39·9	2 below.	12	98	30	339
	7. ENGLAND, N.W.	52	24	45·6	34·3	39·7	3 below.	10	111	28	329
	8. ENGLAND, S.W.	57	24	48·3	34·7	41·3	3 below.	18	202	29	253
	9. IRELAND, NORTH	53	24	47·3	35·2	41·1	2 below.	15	169	26	314
	10. IRELAND, SOUTH	57	26	49·3	35·9	42·4	2 below.	28	253	17	240
	— CHANNEL ISLANDS	50	37	47·3	40·1	43·5	2 below.	18	255	5	96

	DISTRICTS. (See p. 48.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10	4 more.	57	8·2	32	142	38	19
	1. SCOTLAND, EAST	4	3	1 less.	42	4·9	40	185	48	24
	2. ENGLAND, N.E.	3	2	2 less.	41	4·0	21	89	25	11
	3. ENGLAND, EAST	2	2	2 less.	46	5·0	33	184	40	23
	4. MIDLAND COUNTIES	4	3	0 (average).	46	5·8	33	160	39	20
	5. ENGLAND, SOUTH	3	8	4 more.	43	7·2	30	158	36	19
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	4	5	5 less.	51	10·4	30	168	35	22
	7. ENGLAND, N.W.	4	4	1 less.	48	7·1	28	135	34	17
	8. ENGLAND, S.W.	3	4	2 less.	49	8·6	42	194	50	24
	9. IRELAND, NORTH	5	5	0 (average).	52	7·5	19	196	23	25
	10. IRELAND, SOUTH	4	4	2 less.	53	10·8	25	234	29	29
	— CHANNEL ISLANDS	4	5	1 less.	58	8·0	38	234	45	28

General Remarks.

Weather has been in a changeable, unsettled condition generally, comparatively clear skies alternating with much cloud, and falls of rain, sleet, or snow. The fall of sleet and snow which occurred over southern and south-eastern England on the morning of the 22nd was unusually heavy.

Temperature has varied from 1° to 3° below the mean in all districts. The maxima, which were registered on the 20th at nearly all stations, were considerably higher than of late. They ranged from 62° in "England, S." and 60° in "England, E.", to 50° in the "Channel Islands" and 48° in "Scotland, N." The minima, which were recorded on various days in different parts of the Kingdom, were between 24° and 28° in all districts excepting the "Channel Islands", where the lowest reading was 37°.

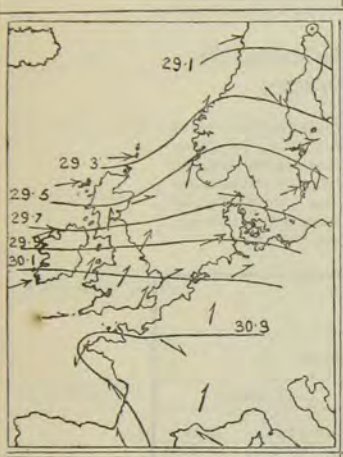
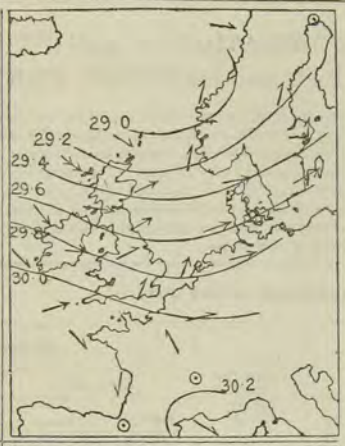
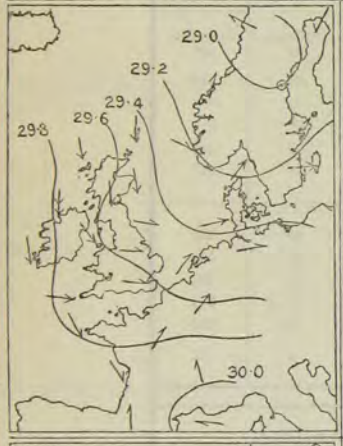
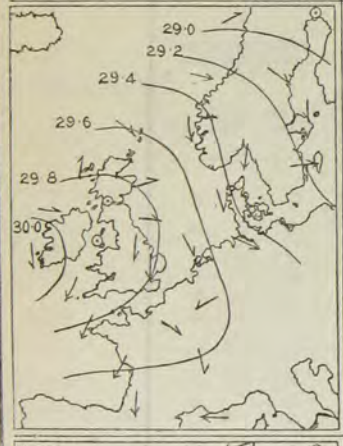
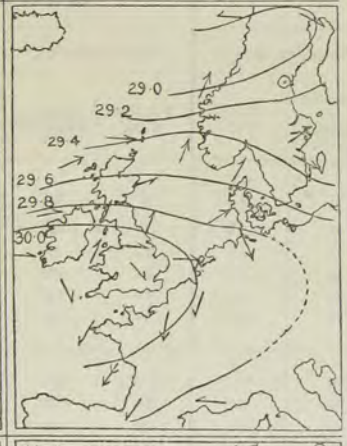
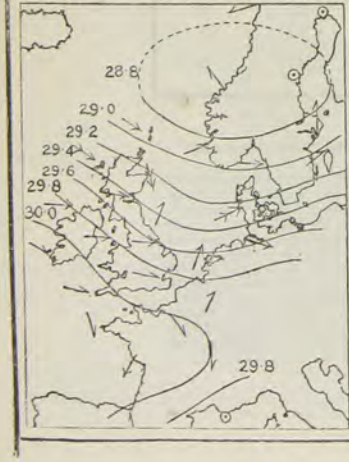
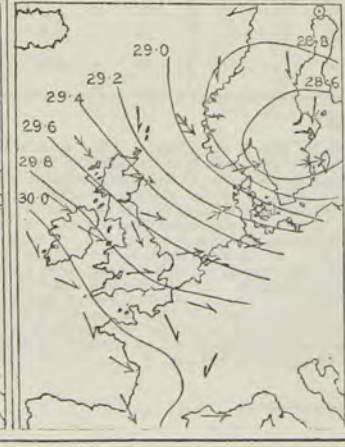
Rainfall has been more than the mean in "Scotland, N." and "England, S.", and about equal to it in the "Midland Counties" and "Ireland. N.", but less in all other districts.

Bright sunshine does not differ greatly on the whole from that recorded last week, the percentages of possible duration varying from 23 in "Ireland, N." and 25 in "England, N.E." to 45 in the "Channel Islands", 48 in "Scotland, E.", and 50 in "England, S.W."

Depressions observed.—At the commencement of this period a depression travelled eastwards off our extreme northern coasts to Scandinavia, while some subsidiary disturbances were shown over the North Sea. On the 19th, however, these had disappeared from our area, but by the 20th, another, and larger, depression, which subsequently moved south-eastwards, had reached Scandinavia. At 8 A.M. on the 22nd, the centre of a small but well defined subsidiary disturbance, which had formed over the north of Ireland on the previous evening, lay over the English Channel, whence it continued to move quickly in a south-easterly direction and disappeared over France. The winds varied considerably, but generally blew from between North-West and North, and on several days, notably on the 18th, 20th, and 21st, they were very fresh or strong; on our north and north-west coasts a fresh to strong gale was experienced.

B 16855. 400.—3/85. Wt. 24. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

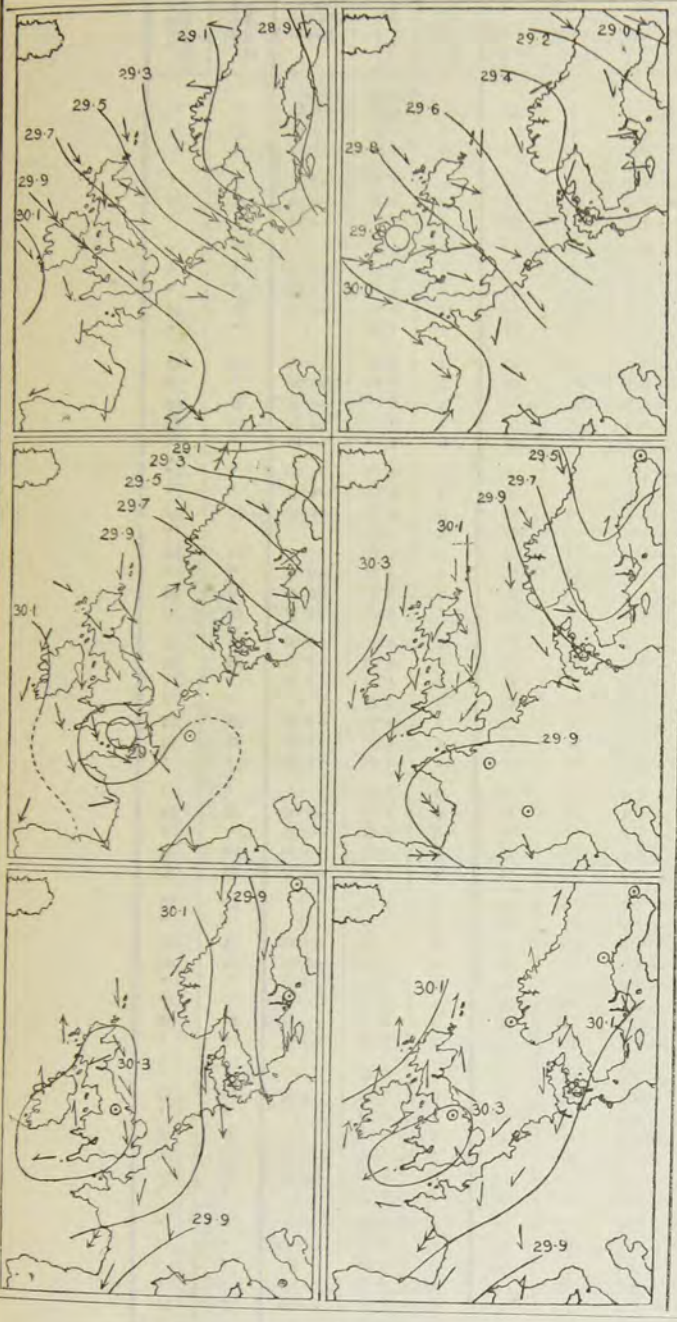
Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, March 17.** *Weather* fine in England, France, and the east of Scotland, but cloudy or overcast elsewhere, with rain on our north-west coasts. Showers extending later to all parts of the Kingdom and snow falling in Scotland. *Temperature* risen a little in most places; readings ranging from 47° at Valencia to 36° at Oxford. *Wind* South-Easterly or Easterly in France, but South-Westerly or Westerly elsewhere; strong in force on our western and northern coasts. Subsequently increasing to gale from West-North-West in the north of Scotland. *Sea* rough in the extreme west and north-west; moderate to smooth elsewhere. *Barometer* falling generally. Anticyclone lying over south-east of France, and large depression to the northward of Scotland. Depression moving eastwards later, and slight recovery of pressure taking place at Stornoway.	
		**Wednesday, March 18.** *Weather* fair at all but our western and northern stations, where very cloudy, with snow in the Shetlands and Hebrides and showers of rain in many other localities. Cold showers falling later in most parts of the Kingdom. *Temperature* fallen several degrees in the west and north, but risen slightly in the south; readings ranging from 45° at Scilly to 34° at Parsonstown and 33° at Stornoway. Frost occurring at night in many parts of the Kingdom. *Wind* strong Northerly or North-Westerly on our western and northern coasts, with gales in the north of Ireland, but moderate Westerly in the south and east and fresh South-Westerly on the eastern shores of the North Sea. Subsequently veering to North in the east and south of our Islands. *Sea* rough west and extreme north. *Barometer* falling at all but our north-western and northern stations. Pressure still highest in south-east of France, but depression of previous day now lying over Scandinavia. Rise taking place in all parts of our Islands later.	
		**Thursday, March 19.** *Weather* dull on our extreme north and north-west coasts, but fair in most other localities; snow showers, however, falling in the east of England. Rain falling in the west and north later. *Temperature* fallen at all but our extreme western stations; readings ranging from 44° at Scilly to 32° at York and Loughborough. *Wind* Westerly or South-Westerly in the north and east of Scotland, but Northerly or North-Easterly in most other localities, moderate in force in our Islands, but strong at the Continental stations. Subsequently increasing to strong breeze on our northern coasts. *Sea* rough off the east of England as well as at Scilly. *Barometer* rising at all but our extreme northern stations, and anticyclone lying over the south of Ireland. Large depression subsequently appearing in far north, and barometer falling on all our western and northern coasts.	
		**Friday, March 20.** *Weather* rainy on our north-western and extreme northern coasts, but fair in most other localities. Snow falling in Scotland later and cold showers occurring at our western stations. *Temperature* risen considerably; readings ranging from 52° at Aberdeen to 42° in London and 42° at Sumburgh Head. Thermometer in London subsequently rising to 60°, but rapid fall taking place in Scotland. *Wind* North-Easterly in the west of France, but Westerly or North-Westerly elsewhere; strong to a gale on our northern coasts. Gale moderating later. *Sea* high at Wick, rough on our western and extreme northern coasts generally. *Barometer* falling at all but the French stations. Large depression lying over Scandinavia and area of relatively high pressure off our south-west coasts, depression subsequently moving south eastwards, and barometer rising again in north.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**



Weather

During the 24 hours succeeding 8 a.m. on the dates given.

Saturday, March 21.

Weather fair in most places, but snow showers falling in the east of Scotland and rain at Belmullet. Rain occurring on our north-west coast later.

Temperature fallen several degrees in north but risen slightly in south; readings ranging from 48° at Valencia and Scilly to 29° at Nairn. Frost occurring in Scotland at night.

Wind generally North-Westerly; strong on our north and east coasts, but moderate in the south-west. Cyclonic circulation forming over our north-western districts later.

Sea rough on our north-western and extreme northern coasts, but slight in most other parts.

Barometer rising at all but the French stations. Pressure highest to the south-westward of our Islands and lowest over Sweden, with rather steep gradients over the North Sea. Small depression subsequently forming over north of Ireland, and barometer falling in west.

Sunday, March 22.

Weather fair in the west and north, but overcast elsewhere, with heavy snow or rain in the south of England, and rain in the south-west of France. Fair weather subsequently extending to all parts of the Kingdom.

Temperature risen a little in the north but fallen in the south; readings varying from 46° at Jersey to 33° at York, Oxford, and in London, and 32° in the Shetlands. Sharp frost occurring in many places at night.

Wind Northerly or North-Westerly on our western and northern coasts, but South-Easterly in the south-east of England; strong in force in the south-west of England. Subsequently shifting to north-east on our southern coasts.

Sea rough at Scilly, rather rough at Spurn Head and Holyhead, moderate to smooth elsewhere.

Barometer rising at all but our southern and the French stations. Pressure highest to the westward of our Islands. Small depression noticed on previous evening moving south-eastwards across the eastern part of the Channel. Rise of barometer extending to our southern coasts later.

Monday, March 23.

Weather fine in most places, but hail showers at Spurn Head. Cloud and rain subsequently appearing in the extreme north-west.

Temperature fallen a little in most places; readings ranging from 44° at Scilly to 30° at Nairn. Sharp frost occurring over England at night.

Wind North-Westerly in east, but North-Easterly in south and South-Easterly or Southerly in extreme west; light or moderate in force generally. Southerly winds subsequently freshening in extreme north-west.

Sea rather rough at Stornoway, moderate to smooth elsewhere.

Barometer rising at all but our north-western stations, and large anticyclone covering the whole of our Islands. Rather brisk fall subsequently taking place in west and north, and anticyclone slowly dispersing.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 45 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°					Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	45	25	39·7	29·3	34·4	− 4·8	0	53	5	0·91	+0·31	*	*
	Stornoway	47	28	43·3	32·0	37·5	− 3·0	4	35	6	1·34	+0·54	32	38
	Wick	48	25	43·0	30·9	36·8	− 2·5	3	39	6	0·67	+0·27	*	*
1. SCOTLAND, E.	Nairn	51	27	44·6	32·1	38·2	− 2·2	7	35	3	0·30	−0·05	*	*
	Aberdeen	53	27	47·0	32·1	39·3	− 0·1	14	36	6	0·26	−0·23	40	48
	Leith	53	28	48·7	32·6	40·4	− 1·2	19	36	2	0·19	−0·11	*	*
2. ENGLAND, N.E.	Alnwick Castle	52	29	45·1	31·6	38·2	− 2·0	9	38	2	0·21	?	*	*
	Shields	55	28	47·7	32·0	39·6	− 1·1	16	37	3	0·21	−0·14	*	*
	Scarborough ℔	58	31	46·1	35·1	40·4	− 0·3	11	26	3	0·16	−0·24	*	*
	York	54	28	47·7	32·4	39·8	− 1·5	16	36	2	0·09	−0·29	21	25
	Spurn Head	52	32	45·6	35·0	40·1	− 0·8	10	26	3	0·09	?	*	*
3. ENGLAND, E.	Hillington ℔	56	25	49·1	31·5	40·0	− 0·7	20	40	2	0·07	−0·26	29	35
	Yarmouth	55	30	47·3	34·4	40·7	− 0·7	15	29	1	0·04	−0·37	*	*
	Geldeston	57	26	48·4	31·9	39·9	− 2·0	18	38	1	0·06	−0·31	35	42
	Cambridge	59	27	51·1	31·3	40·9	− 0·9	25	42	1	0·17	−0·16	35	42
	Rothamsted	60	30	48·7	32·4	40·3	− 1·1	19	37	3	0·54	+0·16	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	29	48·9	31·9	40·2	− 1·1	19	39	5	0·22	−0·13	*	*
	Loughborough	53	28	48·9	33·1	40·8	− 0·6	19	35	4	0·12	−0·21	*	*
	Leicester	56	30	49·7	34·0	41·6	+ 0·4	22	32	5	0·41	+0·06	32	38
	Cheadle ℔	52	27	45·6	31·8	38·5	− 1·8	10	37	5	0·22	?	*	*
	Churchstoke ℔	53	25	47·3	31·7	39·3	− 1·8	15	38	3	0·27	?	29	35
	Hereford ℔	55	30	50·1	32·8	41·2	− 1·1	23	36	3	0·37	−0·03	*	*
	Cirencester	57	27	47·9	31·7	39·6	− 2·2	17	39	3	0·50	+0·02	33	39
	Oxford	59	29	49·0	33·4	41·0	− 1·3	20	34	3	0·64	+0·29	37	44
5. ENGLAND, S.	London†	60	32	49·4	34·4	41·7	− 1·5	21	30	3	0·85	+0·53	24	29
	Marlborough ℔	58	27	48·1	32·0	39·8	− 2·1	17	38	4	0·56	+0·08	33	39
	Strathfield Turgiss ℔	62	29	50·0	31·5	40·5	− 2·3	22	41	4	1·04	+0·69	*	*
	Dungeness	49	33	47·7	35·7	41·5	− 2·4	16	25	3	0·60	?	*	*
	Hastings (St. Leonard's)	52	33	47·3	35·7	41·3	− 1·8	15	24	3	0·80	+0·39	28	33
	Southampton	59	30	51·0	34·2	42·4	− 1·3	36	22	3	0·96	+0·51	35	42
	Hurst Castle	54	32	48·3	36·0	42·0	− 2·0	18	17	3	0·43	+0·03	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	49	29	45·9	33·5	39·5	− 1·3	11	31	6	1·55	?	*	*
	Glasgow	49	26	45·8	32·7	39·1	− 1·8	11	34	2	0·12	−0·96	28	33
	Ardrossan	49	29	45·9	34·1	39·8	− 1·3	11	29	5	0·25	−0·35	*	*
	Silloth (Cumberland)	52	27	46·8	34·4	40·4	− 2·0	13	29	3	0·13	−0·28	30	36
	Douglas (Isle of Man)	52	31	46·5	35·2	40·7	− 2·0	13	26	4	0·33	−0·27	31	37
7. ENGLAND, N.W.	Newton Reigny (Penrith)	49	24	43·9	31·3	37·4	− 3·2	5	37	4	0·27	?	33	39
	Barrow-in-Furness	50	31	46·0	34·6	40·1	− 2·9	11	27	5	0·26	?	*	*
	Stonyhurst	51	27	46·9	31·7	39·1	− 2·5	14	38	4	1·02	+0·32	31	37
	Blackpool ℔	48	28	44·1	33·5	38·6	− 4·4	6	30	5	0·39	−0·02	30	36
	Manchester	49	28	45·2	32·5	38·7	− 3·0	9	34	5	0·52	+0·01	*	*
	Liverpool Obsy (Bidston)	49	32	45·1	35·4	40·1	− 2·7	9	24	3	0·16	−0·22	*	*
	Llandudno ℔	49	32	47·2	35·7	41·8	− 2·1	15	21	4	0·61	+0·20	19	23
	Holyhead	52	33	46·1	38·4	42·1	− 2·1	16	10	4	0·21	−0·24	*	*
8. ENGLAND, S.W.	Llandovery	54	24	49·1	31·1	39·8	− 3·0	20	41	4	0·46	?	*	*
	Pembroke	49	33	46·0	37·3	41·5	− 3·4	11	18	3	0·38	−0·17	36	43
	Arlington (N. Devon)	52	28	46·4	32·1	39·0	− 3·8	12	36	4	0·99	?	*	*
	Cullompton ℔	57	25	49·4	32·8	40·9	− 2·4	21	36	3	0·25	?	39	46
	Falmouth	53	35	48·1	38·2	43·0	− 2·2	23	11	5	0·44	−0·34	47	56
	Plymouth	57	30	51·0	35·6	43·1	− 1·9	35	18	2	0·23	−0·36	46	55
	Prawle Point	55	32	48·4	35·7	41·9	− 2·3	18	25	2	0·34	?	*	*
9. IRELAND, N.	Malin Head	52	34	48·0	35·3	41·5	− 0·3	17	27	7	0·14	?	*	*
	Londonderry	52	29	47·3	34·9	40·9	− 0·9	15	27	6	0·50	−0·10	*	*
	Mullaghmore	50	35	47·3	38·3	42·7	− 0·4	20	10	6	0·73	?	*	*
	Belmullet	50	34	47·1	39·3	43·1	− 2·3	19	8	6	0·85	?	*	*
	Markree Castle	51	25	47·0	33·9	40·2	− 2·5	14	30	6	0·62	+0·06	17	20
	Brookeborough	50	24	46·5	33·3	39·7	− 1·3	13	32	6	0·61	?	*	*
	Armagh	53	26	47·9	33·3	40·4	− 2·3	17	33	3	0·15	−0·30	21	25
	Donaghadee	52	33	46·9	35·6	41·1	− 2·3	14	25	4	0·14	−0·26	*	*
	Edgeworthstown	52	28	48·0	33·3	40·4	− 2·2	17	33	5	0·43	?	*	*
10. IRELAND, S.	Dublin	54	30	48·2	36·4	42·1	− 1·5	24	16	2	0·31	−0·11	28	33
	Parsonstown	56	27	48·9	33·6	41·0	− 1·8	19	32	4	0·33	−0·22	26	31
	Kilkenny	55	26	48·7	33·0	40·6	− 2·1	19	34	3	0·48	?	*	*
	Waterford	57	27	49·9	32·6	41·0	− 3·7	22	37	2	0·33	−0·37	*	*
	Roche's Point	55	34	50·3	37·6	43·8	− 1·1	31	12	4	0·21	−0·64	*	*
	Valencia	54	35	50·3	40·6	45·3	− 0·6	29	4	6	0·91	+0·06	20	24
	Killarney	54	27	49·7	36·0	42·6	− 2·1	29	17	5	0·70	?	*	*
	Foynes	53	33	48·7	37·3	42·8	− 1·1	25	13	4	0·51	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	50	39	48·1	41·1	44·4	− 2·4	21	3	4	0·32	−0·23	*	*
	Jersey (Noirmont)	50	37	46·4	39·1	42·6	− 1·6	16	8	4	0·60	+0·06	38	45

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 13.] *New Series.* WEEK ENDING MONDAY, 30TH MARCH, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 52.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	50	30	45·7	34·9	40·1	0 (average).	10	60	26	409
	1. SCOTLAND, EAST	54	30	47·8	34·9	41·1	0 (average).	16	112	27	454
	2. ENGLAND, N.E.	55	26	46·3	35·5	40·8	1 below.	12	120	25	377
	3. ENGLAND, EAST	58	26	48·5	32·9	40·5	2 below.	18	171	35	449
	4. MIDLAND COUNTIES	56	27	47·8	35·1	41·3	2 below	16	170	27	442
	5. ENGLAND, SOUTH	57	26	48·8	35·1	41·7	3 below.	19	202	27	345
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	51	30	46·4	37·0	41·7	1 below.	12	110	20	359
	7. ENGLAND, N.W.	56	28	46·3	37·1	41·6	2 below.	12	123	19	348
	8. ENGLAND, S.W.	53	27	48·3	38·2	43·1	2 below.	24	226	11	264
	9. IRELAND, NORTH	54	30	48·6	36·7	42·5	2 below.	26	195	15	329
	10. IRELAND, SOUTH	59	29	50·1	37·1	43·4	2 below.	30	283	14	254
	— CHANNEL ISLANDS	54	35	48·1	40·8	44·4	2 below.	22	277	3	99

	DISTRICTS. (See p. 52.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	9	3 more.	63	9·1	25	167	28	20
	1. SCOTLAND, EAST	4	6	3 more.	46	5·5	23	208	26	25
	2. ENGLAND, N.E.	4	4	0 (average).	45	4·4	11	100	13	11
	3. ENGLAND, EAST	2	2	2 less.	48	5·2	36	220	42	25
	4. MIDLAND COUNTIES	4	2	2 less.	50	6·0	16	176	18	20
	5. ENGLAND, SOUTH	2	1	3 less.	45	7·3	29	187	34	21
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	6	15	4 more.	57	11·9	20	188	23	22
	7. ENGLAND, N.W.	5	5	0 (average)	53	7·6	14	149	16	17
	8. ENGLAND, S.W.	5	5	2 less.	54	9·1	17	211	19	23
	9. IRELAND, NORTH	5	10	5 more.	57	8·5	19	215	21	25
	10. IRELAND, SOUTH	5	10	3 more.	58	11·8	23	257	27	29
	— CHANNEL ISLANDS	4	3	3 less.	62	8·3	34	268	39	29

General Remarks.

Weather has been dull and unsettled over Ireland and Scotland, but finer, though at times very dull, over England. Showers of rain have fallen very generally, while in Scotland on the night of the 29th a heavy fall of sleet occurred.

Temperature has been about equal to the mean in the north and east of Scotland, but from 1° to 3° below it in all other districts. The maxima, which were recorded on different dates in the various parts of the Kingdom, ranged from 50° or 51° in the extreme north and north-west of Great Britain, to 57° in "England, S.", 58° in "England, E.", and 59° in "Ireland, S." The minima, which were also registered on different days, varied from 26° in the north-east, east, and south of England, to 35° in the "Channel Islands". At the inland stations the ground frosts were again severe; the thermometer on the grass in London during the early morning of the 28th fell to 21°.

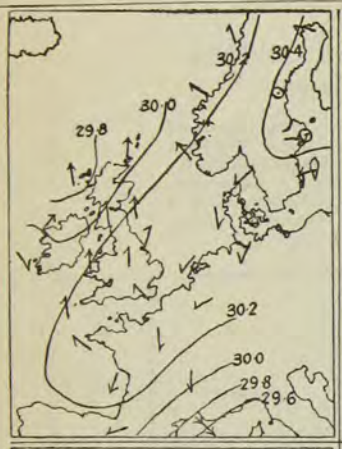
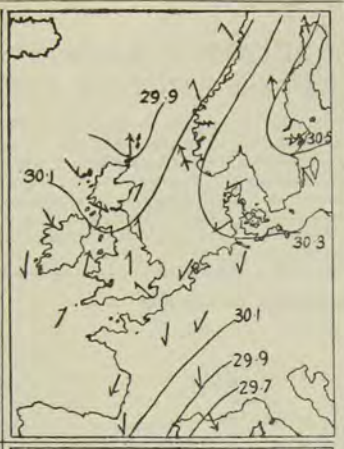
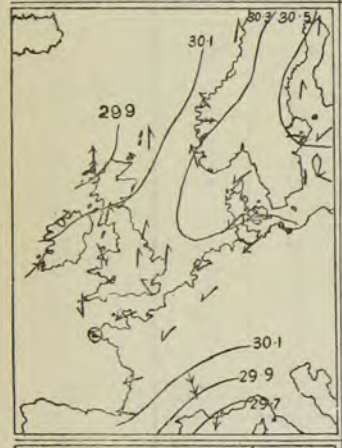
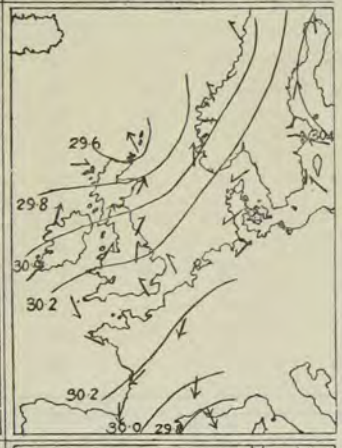
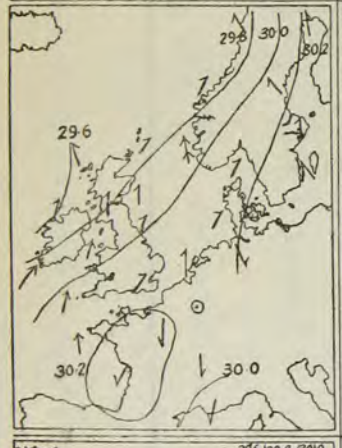
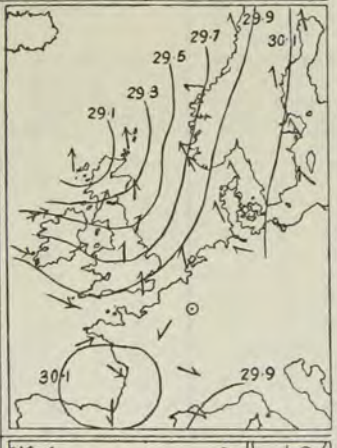
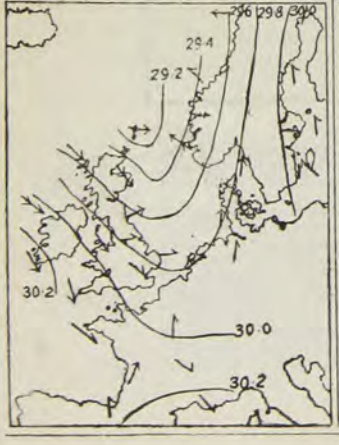
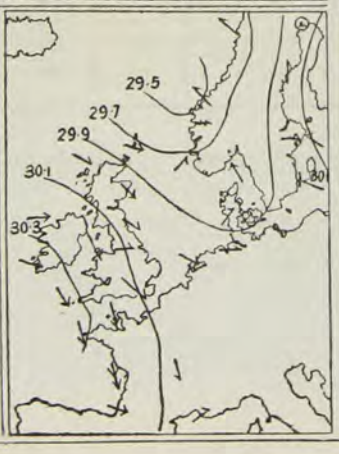
Rainfall has been more than the mean in Scotland and Ireland, but less in nearly all the English districts.

Bright sunshine shows a very general decrease, the percentages of the possible duration varying from 13 in "England, N.E." and 16 in "England, N.W.", to 34 in "England, S.", 39 in the "Channel Islands", and 42 in "England, E."

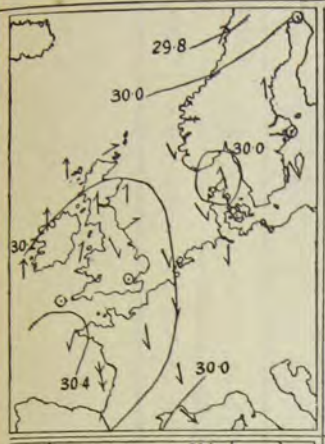
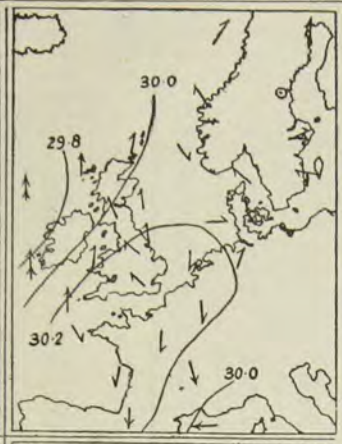
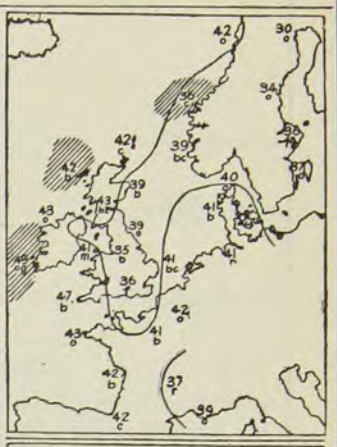
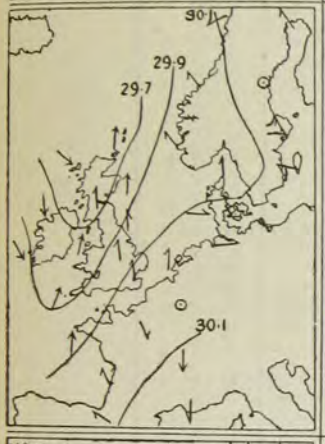
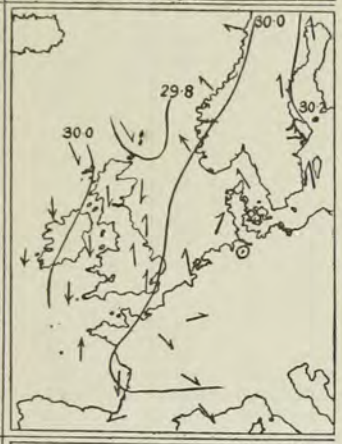
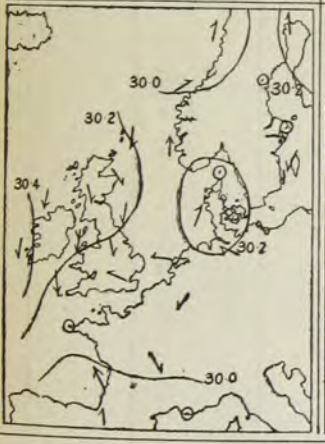
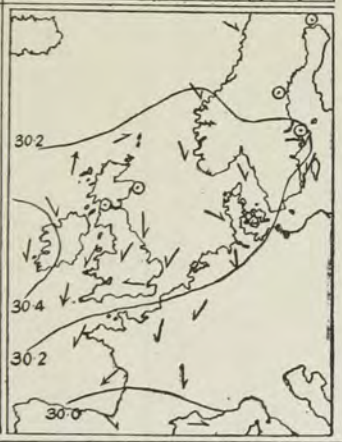
Depressions observed.—During the greater part of this period depressions travelled north-eastwards over our extreme north-western and northern coasts, producing fresh to strong Southerly to South-Westerly winds at almost all our stations. On the 27th, owing to the development of a "hollow" over the North Sea, North-Westerly winds were experienced, and in the north and north-west attained the force of a gale. By the 28th, the barometer had risen quickly, and an anticyclone was formed over England. This, however, was of brief duration, some depressions passing north-eastwards over the United Kingdom during the following day, with strong Northerly winds in the west, and moderate Southerly breezes in the east; at the close of the period the Northerly wind had extended to all except our south-east coasts.

B 16954. 400.—4/85. Wt. 24. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather during the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, March 24.** *Weather* dull in the west and north with rain in many parts of Ireland and Scotland, but fair or fine elsewhere. Subsequently improving in Ireland, but cloud and rain extending eastwards to most of the English stations. *Temperature* risen in the west and north, but fallen in the south-east; readings ranging from 48° at Valencia to 32° at Loughborough. *Wind* moderate North-Easterly in France and South-Easterly in the south-east of England, but strong Southerly on most parts of our western and northern coasts. Subsequently shifting to North-West or North in Ireland and the west of Scotland. *Sea* rough off the north of Scotland, rather rough at Valencia, moderate to smooth elsewhere. *Barometer* falling at all but our south-eastern and the Continental stations. Anticyclone lying over Sweden and band of relatively high pressure extending over the North Sea, the south of England, and north of France, with depression off the north-west of Scotland. Depression moving northwards later, and barometer rising in west and north, but subsidiary disturbances appearing over England.	
		**Wednesday, March 25.** *Weather* fine at our south-eastern and many of the Continental stations, but cloudy or overcast elsewhere. Rain falling in west and north later. *Temperature* fallen several degrees in Ireland and Scotland; reading ranging from 47° at Valencia and Scilly to 36° at Oxford and 35° at Parsonstown. *Wind* moderate to strong Southerly or South-Westerly on our northern coasts, but light South-Easterly in the south-east and light North-Westerly in the south-west. South-westerly breeze subsequently extending to all but our extreme southern stations and blowing strongly in west and north. *Sea* high at Stornoway, rather rough at Sumburgh Head and Scilly, moderate to smooth elsewhere. *Barometer* falling briskly on our extreme north and north-west coasts, but rising elsewhere. General distribution of pressure same as on previous day, with new depression approaching the west of Scotland. Fall extending to all parts of our Islands later.	
		**Thursday, March 26.** *Weather* fine in France and the south-east of England, but overcast elsewhere, with snow in Sweden, and rain over Ireland and the west of Scotland. Rain falling later in nearly all parts of Western Europe. *Temperature* risen a few degrees; readings ranging from 51° at Valencia to 37° at Dungeness. Fall taking place on our north-west coasts later. *Wind* North-Easterly in France, but Southerly or South-Westerly elsewhere; strong in force at many of our western stations. Subsequently veering to West on our western coasts, and increasing to fresh gale in Ireland. *Sea* rough on our extreme western and northern coasts. *Barometer* falling at all but the southern French stations. Areas of high pressure lying over Northern Europe and the west of France, with new depression off our extreme north-west coasts. Depression subsequently moving north-eastwards, and barometer rising again in west.	
		**Friday, March 27.** *Weather* showery on our extreme north and north-west coasts and rainy in France, but fair in most other localities. Showers of hail, sleet, or cold rain falling later at all the more northern stations. *Temperature* fallen several degrees in the west; readings ranging from 46° at Scilly and in London to 39° at Parsonstown. Frost occurring at night in many parts of Great Britain; thermometer on grass in London falling to 21°. *Wind* South-Easterly or Southerly on the eastern shores of the North Sea, but North-Westerly in our Islands and the north of France; strong to a gale in force on our western and northern coasts. Gale moderating later, and wind backing. *Sea* rough in the west and extreme north generally. *Barometer* rising in most parts of our Islands, but falling at the Continental stations. Depression of previous day now lying to the northward of the Shetlands, but subsidiary disturbances shown over North Sea. Rise continuing in our Islands all day.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, March 28.** *Weather* dull at most of the Irish and several of the Continental stations, but fine and bright over Great Britain and France. Rain falling later on many parts of our western coasts. *Temperature* risen a little in the south-west but fallen elsewhere; readings ranging from 49° at Valencia to 35° at York. *Wind* fresh Southerly or South-Westerly in west and north, but moderate Northerly or North-Westerly at our eastern, southern, and the French stations. Subsequently increasing to moderate or fresh gale in Ireland and the west of Scotland. *Sea* rather rough at Stornoway and Valencia, moderate to smooth elsewhere. *Barometer* rising at all but our extreme western stations. Anticyclone lying over France and England, but depression approaching our western coasts. Fall extending later to all but our south-eastern coasts.	
		**Sunday, March 29.** *Weather* fine and bright over south-eastern parts of England, more or less showery elsewhere; solar and lunar halos seen in London, and much cirrus cloud about. *Temperature* risen England, fallen in Ireland. Maxima during day 53° at Cambridge and 50° in London; only 44° to 46° in Scotland. *Wind* Southerly over Great Britain, North-Westerly and Northerly in Ireland. The Northerly current subsequently spreading to all but our south-eastern counties. *Sea* rough except in south-east and east. *Barometer* falling decidedly over Great Britain, rising in Ireland. Band of high pressure over France, Holland, and our south-eastern counties; depression in north, and an elongated subsidiary disturbance stretching southwards over our western districts.	
		**Monday, March 30.** *Weather* fair and dry in most places, but slight cold showers felt in extreme north-east and east of our islands. Solar halo again in London during morning, then hazy. Air very dry. *Temperature* risen a little in the south-east, maxima being recorded of 58° at Cambridge, and 56° in London and at Oxford. *Wind* light South-Easterly to Easterly over our Midland and south-eastern counties, strong to moderate Northerly in west. *Sea* rough at first in the south-west, afterwards going down. Very little disturbed elsewhere. *Barometer* rising. Readings highest in west, lowest over Spain. Subsidiary shallow depression over Brittany, afterwards breaking up.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 49 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	46	30	44·1	34·7	39·3	− 0·6	6	26	7	0·92	+0·33	*	*
	Stornoway	48	31	46·3	35·1	40·5	− 0·9	12	26	7	1·41	+0·65	25	28
	Wick	50	30	46·7	34·9	40·6	+ 0·5	13	27	4	0·26	−0·14	*	*
1. SCOTLAND, E.	Nairn	54	30	48·1	34·0	40·8	− 0·6	17	31	4	0·33	−0·02	*	*
	Aberdeen	48	33	45·9	34·9	40·2	− 0·1	11	26	6	0·79	+0·30	23	26
	Leith	52	31	49·4	35·7	42·4	− 0·4	29	18	2	0·81	+0·50	*	*
2. ENGLAND, N.E.	Alnwick Castle	49	26	45·6	36·1	40·7	− 0·7	10	22	3	0·70	?	*	*
	Shields	50	31	46·0	35·6	40 7	− 1·0	11	25	5	0·50	+0·14	*	*
	Scarborough ¶	50	33	46·3	35 9	40·9	− 0·9	12	23	4	0·23	−0·17	*	*
	York	55	30	47·9	34 4	41·0	− 1·8	17	30	4	0·28	−0 11	11	13
	Spurn Head	49	33	45·9	35·6	40·6	− 1·8	11	24	3	0·07	−0·28	*	*
3. ENGLAND, E.	Hillington ¶	57	27	50·5	32·0	41·0	− 0·7	24	40	2	0·21	−0 14	32	37
	Yarmouth	48	33	44·7	35·4	39·9	− 2·6	8	24	2	0·26	−0·14	*	*
	Geldeston	51	27	47·6	32·2	39·7	− 3·6	16	37	2	0·24	−0·12	46	53
	Cambridge	58	26	51 7	31 9	41·7	+ 0·2	27	41	1	0·09	−0·26	31	36
	Rothamsted	53	28	48·1	33·1	40·4	− 0·9	17	34	2	0·10	−0·30	*	*
4. MIDLAND COUNTIES	Rawtry (Hesley Hall)	55	31	48·9	35·6	42·1	− 0·2	28	18	3	0·11	−0·28	*	*
	Loughborough	56	30	48·6	35·1	41·7	− 1·1	18	28	4	0·20	−0·15	*	*
	Leicester	55	30	48·8	35 6	42·0	− 0·8	19	18	3	0·16	−0·20	13	15
	Cheadle ¶	50	29	44·4	34·1	39·1	− 2·6	7	28	7	0·42	?	*	*
	Churchstoke ¶	50	27	46·6	34·2	40·2	− 2·2	13	29	4	0·25	?	11	13
	Hereford ¶	55	29	48·7	35·5	41·9	− 1·7	19	26	5	0·27	−0·13	*	*
	Cirencester	51	30	47·3	34·6	40·8	− 2·5	15	29	3	0·19	−0·31	17	20
	Oxford	56	32	49·1	35·9	42·3	− 1·5	28	17	2	0·08	−0·32	21	24
5. ENGLAND, S.	London†	56	29	49·6	34·7	41·9	− 2·9	21	29	1	0·10	−0·24	20	23
	Marlborough ¶	54	30	47·8	34 0	40·7	− 2·6	16	31	3	0·16	−0·34	17	20
	Strathfield Turgiss ¶	57	26	50·4	32·7	41·3	− 2·5	24	37	1	0·04	−0·34	*	*
	Dungeness	50	32	47·4	34·3	40·7	− 4·5	15	30	1	0·21	?	*	*
	Hastings (St. Leonard's)	52	32	47·8	36·3	41·9	− 2·4	16	23	1	0·18	−0·27	55	63
	Southampton	55	32	49·8	36·5	43·0	− 1·9	30	15	3	0·13	−0·35	25	29
	Hurst Castle	53	31	48·6	36·9	42·6	− 2·8	26	14	2	0·19	−0·24	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	51	33	47·3	36·1	41·5	− 0·3	15	23	6	3·70	?	*	*
	Glasgow	49	34	45·5	36·4	41·8	− 0·6	10	28	5	0·81	+0·23	18	20
	Ardrossan	48	33	46·0	36·9	41·3	− 1·1	11	20	6	1·17	+0·58	*	*
	Silloth (Cumberland)	50	30	47·3	37·7	42·3	− 1·2	20	12	5	0·58	+0·18	21	24
	Douglas (Isle of Man)	49	32	45·9	37·9	41·8	− 2·0	11	16	6	1·25	+0·67	21	24
7. ENGLAND, N.W.	Newton Reigny (Penrith)	49	28	44·4	34·9	39·5	− 2·3	7	25	4	0·34	?	15	17
	Barrow-in-Furness	48	31	45·6	36·6	41·0	− 3·5	10	21	5	0·63	?	*	*
	Stonyhurst	50	32	46·3	35·4	40·7	− 2·1	12	25	5	0·64	−0·01	15	17
	Blackpool ¶	49	32	45·8	36·7	41·1	− 3·3	11	20	4	0·36	−0·54	16	18
	Manchester	50	33	45·7	36·1	40·8	− 1·7	10	23	5	0·69	+0·19	*	*
	Liverpool Obsy (Bidston)	51	33	46·9	38·4	42·5	− 1·8	19	10	5	0·33	−0·12	*	*
	Llandudno ¶	56	37	49·1	39·4	44·1	− 0·8	26	7	2	0·32	−0·09	11	13
	Holyhead	49	37	46·6	39·4	42·9	− 2·5	17	7	6	0·82	+0·40	*	*
8. ENGLAND, S.W.	Llandovery	52	28	47·9	36·6	42·1	− 1·5	23	15	6	0·36	?	*	*
	Pembroke	48	36	46 3	40·0	43·1	− 2·7	16	6	4	0·44	−0·08	16	18
	Arlington (N. Devon)	50	31	47·1	36·1	41·4	− 2·7	14	23	4	0·70	?	*	*
	Cullompton ¶	53	27	49 2	37·1	43·0	− 1·8	28	14	6	0·44	?	14	16
	Falmouth	50	38	48·6	41·1	44·7	− 1·6	23	3	5	0·55	−0·23	17	20
	Plymouth	53	34	50 4	38·7	44·4	− 1·8	31	9	6	0·67	+0·07	19	22
	Prawle Point	52	35	48·4	37·9	43·1	− 2·3	25	11	3	0·21	?	*	*
9. IRELAND, N.	Malin Head	51	37	48·9	37·7	43·1	+ 0·4	26	12	5	0·24	?	*	*
	Londonderry	53	34	49·3	36·7	42·8	− 0·5	28	15	6	0·95	+0·37	*	*
	Mullaghmore	52	38	48·7	40·1	44·3	− 0·4	24	5	6	0·87	?	*	*
	Belmullet	51	37	47 9	40·1	43·9	− 2·3	21	5	4	1·36	?	*	*
	Markree Castle	53	30	48·2	34·4	41·1	− 3 7	17	30	6	1·10	+0·55	19	22
	Brookeborough	53	30	47·9	33·9	40·7	− 1·7	17	31	6	1·58	?	*	*
	Armagh	54	30	49·4	35·5	42·3	− 1·5	29	18	6	1·05	+0·58	18	20
	Donaghadee	54	33	47·6	36·7	42·0	− 2·9	16	15	5	1·19	+0·76	*	*
	Edgeworthstown	54	31	49·7	35·1	42·2	− 1·4	30	19	5	0·68	?	*	*
10. IRELAND, S.	Dublin	59	34	50·3	38·2	44·1	− 0·8	31	11	5	0·23	−0·21	22	25
	Parsonstown	54	30	49·6	34·9	42·0	− 1·8	21	20	5	0·80	+0·26	20	23
	Kilkenny	57	30	48·9	34·1	41·3	− 2·4	19	31	6	0·87	?	*	*
	Waterford	55	31	49·6	35·1	42·1	− 3·2	30	19	4	1·16	+0·46	*	*
	Roche's Point	55	38	51·0	39·4	45·0	− 0·7	32	7	6	0·69	−0·16	*	*
	Valencia	55	38	51·3	40·7	45·8	− 1·0	32	4	5	1·48	+0·58	28	32
	Killarney	56	29	50·3	36·4	43·2	− 2·0	32	16	6	1·52	?	*	*
	Foynes	54	37	49·5	38·3	43·7	− 1·2	27	10	4	0·82	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	40	49·1	43·0	46·0	− 1·4	28	0	6	0·38	−0·17	*	*
	Jersey (Noirmont)	54	35	47·1	38·6	42·7	− 2·7	19	10	1	0·18	−0·35	34	39

Stations marked ¶ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

(OFFICIAL COPY.)

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 14.] *New Series.* WEEK ENDING MONDAY, 6TH APRIL, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 56.)	Temperature of the Air.									
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.			
				Averages of				Above 42°		Below 42°	
		Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.		For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	52	28	46·1	34·0	39·8	2 below.	11	71	29	438
	1. SCOTLAND, EAST	55	29	48·2	34·0	40·8	2 below.	17	129	30	484
	2. ENGLAND, N.E.	51	27	46·5	33·9	39·9	3 below.	13	133	29	406
	3. ENGLAND, EAST	59	22	50·0	32·6	40·9	3 below.	22	193	36	485
	4. MIDLAND COUNTIES	55	23	49·7	32·0	40·4	4 below.	22	192	37	479
	5. ENGLAND, SOUTH	60	23	51·4	33·9	42·3	4 below.	36	238	23	368
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	50	26	47·1	34·0	40·3	4 below.	14	124	30	389
	7. ENGLAND, N.W.	52	25	47·4	33·6	40·2	5 below.	15	138	31	379
	8. ENGLAND, S.W.	57	24	48·4	35·0	41·4	5 below.	18	244	27	291
	9. IRELAND, NORTH	54	28	48·5	35·0	41·4	4 below.	18	213	27	356
	10. IRELAND, SOUTH	54	26	49·4	34·5	41·5	5 below.	21	304	28	282
	— CHANNEL ISLANDS	53	37	48·5	40·6	44·3	3 below.	22	299	4	103

	DISTRICTS. (See p. 56.)	Rainfall.					Bright Sunshine.			
		For the Week.			Since Dec. 30/84.		Hours recorded.		Percentage of the possible Duration.	
		Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Number of Rainy Days.	Total Fall.	For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	6	1 more.	66	9·7	34	201	37	22
	1. SCOTLAND, EAST	2	3	1 less.	48	5·8	39	247	42	26
	2. ENGLAND, N.E.	3	4	0 (average).	48	4·8	27	127	30	13
	3. ENGLAND, EAST	2	2	2 less.	50	5·4	44	264	49	27
	4. MIDLAND COUNTIES	4	8	4 more.	54	6·8	39	215	43	22
	5. ENGLAND, SOUTH	3	5	1 more.	48	7·8	47	234	52	24
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	3	8	4 more.	60	12·7	39	227	43	24
	7. ENGLAND, N.W.	4	10	5 more.	57	8·6	40	189	44	20
	8. ENGLAND, S.W.	4	11	5 more.	58	10·2	43	254	48	26
	9. IRELAND, NORTH	4	11	6 more.	61	9·6	32	247	35	26
	10. IRELAND, SOUTH	4	13	6 more.	62	13·1	40	297	44	30
	— CHANNEL ISLANDS	4	8	3 more.	66	9·1	53	321	59	30

General Remarks.

Weather has varied considerably in different parts of the Kingdom and on different days, dull and rainy intervals occasionally prevailing, while at other times the sky was very clear. Showers of very large hail were experienced at Sandwick (Orkneys) on the 2nd.

Temperature has been below the mean in all districts, the deficit ranging from 2° in the east and north of Scotland, to 5° in the south-west and north-west of England and the south of Ireland. The maxima, which were generally recorded on March 31st or April 1st, varied from 50° in "Scotland, W." to 59° in "England, E." and 60° in "England, S." The minima were registered either on the 3rd, 4th, or 5th, when the thermometer fell to 22° in "England, E.", 23° in "England, S." and the "Midland Counties", 24° in "England, S.W.", and to between 25° and 29° in all other districts excepting the "Channel Islands", where it did not fall below 37°. The grass minima were again low for the season, the lowest recorded being 16° at Geldeston and 18° at Loughborough during the early morning of the 5th.

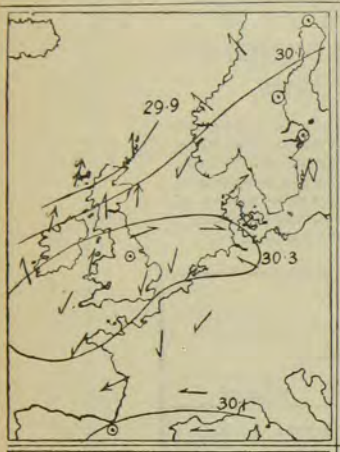
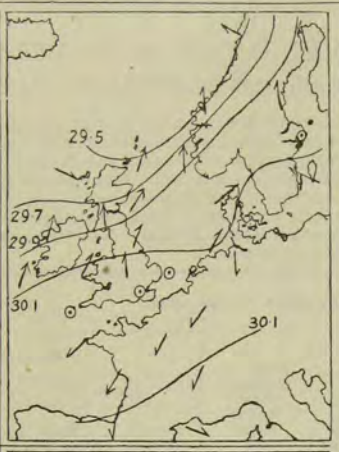
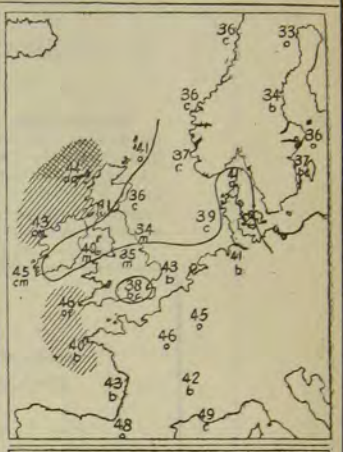
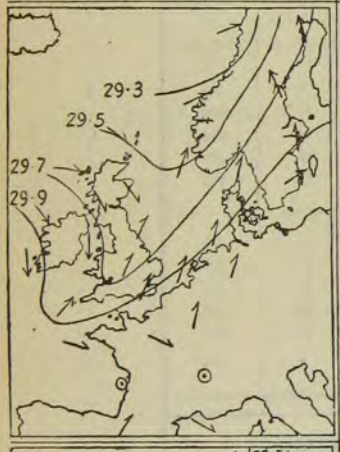
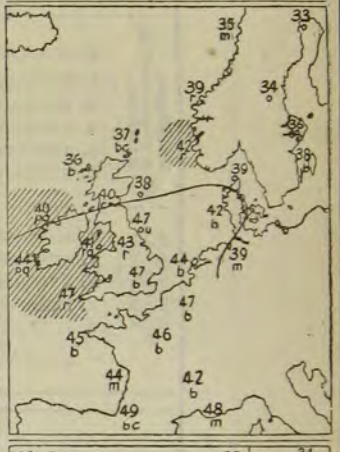
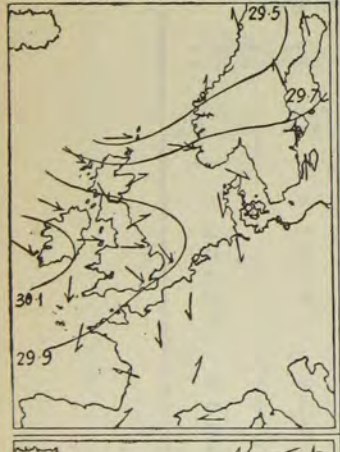
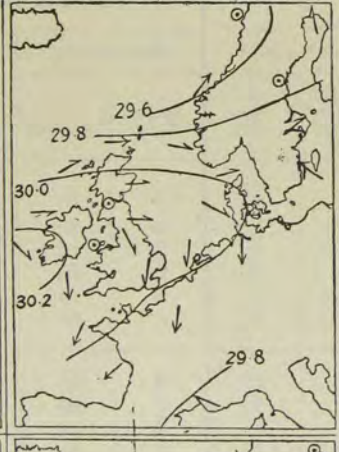
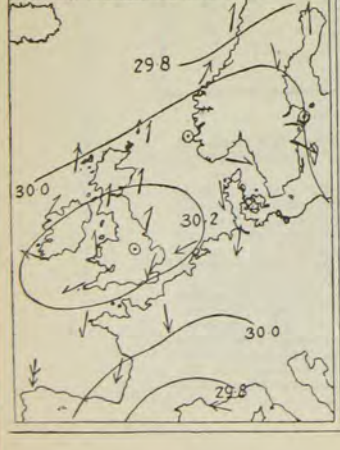
Rainfall has been a little less than the mean in "Scotland, E." and "England, E.", and about equal to it in "England, N.E.", while in all other districts an excess is shown.

Bright sunshine has been more prevalent than it was last week, the percentages of the possible duration varying from 30 in "England, N.E." to 52 in "England, S." and 59 in the "Channel Islands".

Depressions observed.—At the commencement of the period a large depression was travelling north-eastwards outside our extreme northern coasts, while an anticyclone covered all the more southern parts of the Kingdom. By the following day some subsidiary disturbances had appeared over our Islands, and the wind which had previously been fresh or strong from the Southward on our western and northern coasts and light from the North-Eastward in the south, to blow strongly from the Northward at all our western and northern stations, and moderately from South-West in the south. As these depressions disappeared an anticyclone passed over our Islands from the westward; by the close of the week it had reached Scandinavia, while depressions advanced to our west and south-west coasts from the Atlantic, producing strong Southerly winds over Ireland and moderate to fresh South-Easterly winds in other parts of the Kingdom. In the extreme west of Ireland a strong Southerly gale was experienced for a short time on Sunday.

B 17001. 350.—4/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, March 31.** *Weather* still fine in south and south-east, and bright, but breaking up entirely in the west and north. Much rain in Ireland and north-western parts of Great Britain. *Temperature* risen generally, most over England; maximum readings 55° to 58° over our south-eastern counties, but not nearly so high elsewhere. *Wind* back to South-West again in north, and blowing strongly; afterwards backing to South in Ireland, and blowing a gale. Light over England, but backing to South-Westward. *Sea* becoming very rough in north, west, and south-west. *Barometer* falling fast north and west; anticyclone lying from west-south-west to east-north-east across England and southern parts of Ireland and North Sea; afterwards moving further southwards; depressions appearing north and west.	
		**Wednesday, April 1.** *Weather* changeable and unsettled; showers of cold rain in many places, mingled with sleet and hail locally; amount of fall not large in west, but rather so over England. *Temperature* changing irregularly; rather high at first over our southern counties; falling in Ireland, and fall subsequently spreading eastwards to England—not reaching our south-eastern counties till night. *Wind* South-Westerly, moderate over England, North-Westerly in Scotland, Northerly (strong in Ireland). The North-Westerly and Northerly winds afterwards becoming general. *Sea* rough in west and south-west. *Barometer* still falling in east, rising again quickly in west; depression in north moving away in north-easterly directions; angularly-formed subsidiary travelling eastwards across Great Britain.	
		**Thursday, April 2.** *Weather* improving generally, but rather cold. A little rain in extreme north and north-west and also at Jersey, but none in other parts of our Islands. Heavy showers of very large hail at Sandwick (Orkneys). *Temperature* fallen decidedly; sharp frost over England at night. *Wind* fresh Westerly and North-Westerly in the north and west, rather strong Northerly in south of England; Northerly gale over Bay of Biscay. *Sea* rough both in south-west and north-west at first, afterwards going down. *Barometer* rising. Anticyclone in west, extending eastwards over England; moderate gradients for westerly winds in north. Gradients in south variable.	
		**Friday, April 3.** *Weather* very fine generally, and air extremely dry; cold over England, but somewhat milder in Ireland and Scotland. *Temperature* fallen several degrees at the English stations, unchanged in the west. Loughborough 13° colder than Scilly and Belmullet. *Wind* moderate to light; North-Easterly at all the southern stations, South-Westerly in the north, calm over the more central districts. Backing to the Southward in Ireland later on, and increasing considerably in force. *Sea* little disturbed at first, afterwards becoming rough in the extreme west. *Barometer* rising generally at first, afterwards falling fast in west. Anticyclone lying over England, and the southern parts of Ireland and North Sea, but subsequently moving south-eastwards.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

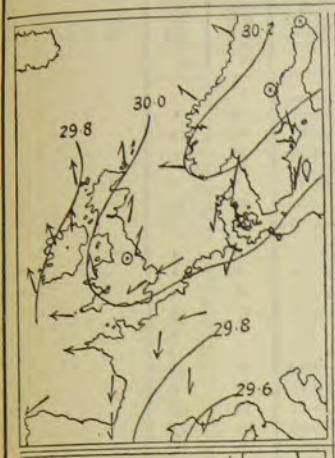
Weather

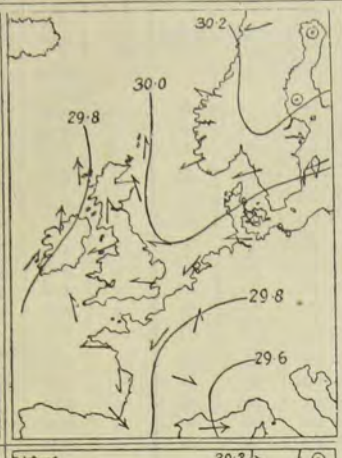
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Saturday, April 4.

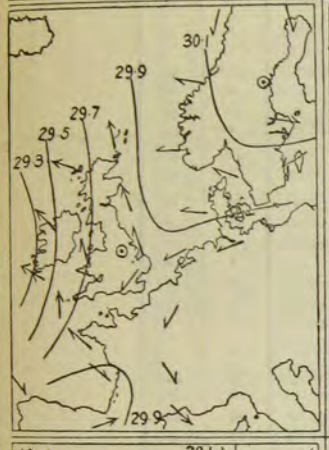
Weather becoming rough and squally in extreme west of Ireland, with a good deal of rain at Valencia and smaller amounts at other Irish stations; fine and dry in remaining parts of the Kingdom.

Temperature very low over England, with sharp hoar frost; Loughborough 19° colder than Valencia; air very dry at English stations.

Wind moderate from East and North-East over England, Southerly in Ireland and Scotland, and blowing strongly in extreme West and North-West. Afterwards shifting to North-West at Valencia and lulling.

Sea rough and rising in far west.

Barometer highest over Scandinavia, and a ridge spreading south-westwards over North Sea and England. Readings lowest in south of France and off our western coasts. Pressure decreasing very quickly in far west till 8 a.m., then almost steady till night, when fall was renewed.



Sunday, April 5.

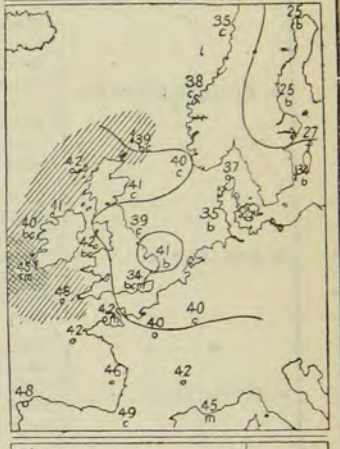
Weather still very fine over England, but breaking up completely over Ireland and west of Scotland; unsettled weather spreading eastwards later on.

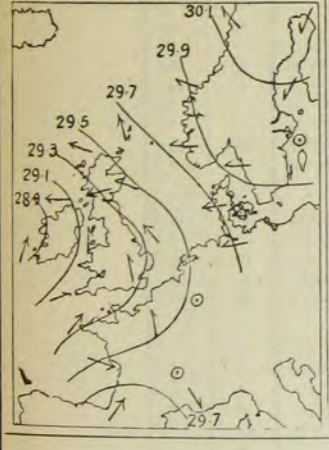
Temperature still rather low generally, especially over England.

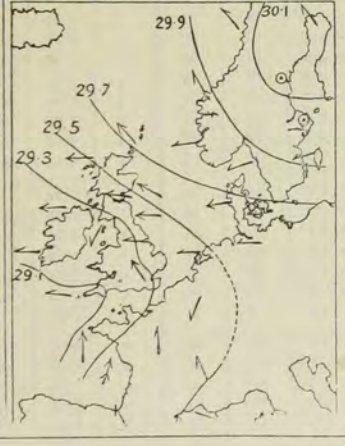
Wind light from East and North-East at English stations, fresh South-Easterly and Southerly in Scotland, strong in Ireland. Strong South-Easterly and Southerly gales experienced in extreme west of Ireland during the day, and Westerly winds setting in over France and at mouth of Channel. Gales confined to extreme western coasts.

Sea high in far west only.

Barometer again falling very fast in far west and briskly elsewhere. Deep and complex depression apparently lying over Atlantic near Irish coast, but not advancing over our Islands. Subsidiary disturbances over Irish Sea and Great Britain during day. Pressure high both over Spain and Scandinavia.







Monday, April 6.

Weather less fair than of late, showers in many places.

Temperature rising decidedly over England; readings very uniform over the Kingdom generally.

Wind strong South-Easterly and Easterly over the northern and eastern parts of the Kingdom, but shifted to South-West (moderate) in the south. Gales in far west all subsided. South-Easterly wind blowing a moderate gale at Aberdeen later on.

Sea high in west and south-west, rough in north and north-west.

Barometer still high over Scandinavia and Spain. Depression off west of Ireland, and "hollow" over our Islands generally. Depression in west, apparently filling up later and moving south-eastwards. Very small subsidiary disturbance at mouth of Channel in evening.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇉ = a heavy gale; ⟶ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 53 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	47	28	43·4	33·4	38·2	− 2·6	4	30	4	0·64	+0·07	*	*
	Stornoway	49	30	46·1	34·6	40·1	− 2·0	11	27	4	1·06	+0·36	34	37
	Wick	52	30	48·9	34·1	41·1	+ 0·1	19	30	2	0·16	−0·24	*	*
1. SCOTLAND, E.	Nairn	53	30	47·7	34·3	40·7	− 1·6	16	29	2	0·48	+0·14	*	*
	Aberdeen	55	30	47·4	34·0	40·4	− 1·1	15	30	3	0·21	−0·30	39	42
	Leith	54	29	49·6	33·6	41·2	− 2·5	21	32	1	0·21	−0·14	*	*
2. ENGLAND, N.E.	Alnwick Castle	50	30	45·4	34·7	39·8	− 2·6	10	26	1	0·10	?	*	*
	Shields	50	29	47·0	31·3	38·8	− 4·2	14	39	4	0·11	−0·29	*	*
	Scarborough ℳ	50	32	46·9	34·9	40·6	− 2·2	14	26	3	0·43	+0·02	*	*
	York	51	27	48·1	31·0	39·1	− 5·1	17	40	3	0·66	+0·26	27	30
	Spurn Head	48	34	45·3	37·4	41·2	− 2·5	9	17	3	0·55	?	*	*
3. ENGLAND, E.	Hillington ℳ	53	26	49·4	31·3	39·9	− 3·0	21	39	2	0·24	−0·12	36	40
	Yarmouth	58	35	47·3	37·7	42·3	− 1·4	20	12	1	0·09	−0·32	*	*
	Geldeston	59	26	49·2	33·4	40·9	− 3·7	20	32	1	0·07	−0·30	54	60
	Cambridge	58	22	53·3	28·9	40·5	− 4·3	32	50	3	0·39	+0·02	42	47
	Rothamsted	56	26	51·0	31·8	40·9	− 3·4	25	39	5	0·31	−0·14	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	23	49·7	31·9	40·4	− 3·0	22	38	4	0·70	+0·30	*	*
	Loughborough	54	24	51·0	31·4	40·7	− 3·7	25	40	4	0·86	+0·49	*	*
	Leicester	54	26	51·0	33·0	41·6	− 2·5	25	35	4	0·95	+0·55	27	30
	Cheadle ℳ	50	28	47·7	32·6	39·8	− 3·0	16	34	4	1·02	?	*	*
	Churchstoke ℳ	52	25	49·1	30·6	39·4	− 4·6	20	42	3	0·84	?	44	48
	Hereford ℳ	55	27	50·0	32·6	40·9	− 4·0	22	36	4	0·72	+0·32	*	*
	Cirencester	54	24	48·4	32·4	40·0	− 4·4	18	35	4	0·86	+0·36	42	47
	Oxford	55	27	50·7	31·4	40·6	− 5·0	24	40	3	0·65	+0·25	43	48
5. ENGLAND, S.	London†	60	31	53·4	34·1	43·3	− 2·9	42	22	2	0·23	−0·16	46	51
	Marlborough ℳ	56	23	49·6	31·2	40·0	− 4·4	21	40	3	1·01	+0·49	42	47
	Strathfield Turgiss ℳ	59	24	54·6	30·9	42·4	− 2·5	49	31	2	0·49	+0·08	*	*
	Dungeness	51	32	49·7	37·1	43·1	− 3·4	28	14	2	0·26	?	*	*
	Hastings (St. Leonard's)	58	34	50·1	37·2	43·3	− 2·4	29	13	3	0·29	−0·17	47	52
	Southampton	59	27	52·8	33·7	42·8	− 3·2	40	23	3	0·72	+0·23	51	57
	Hurst Castle	54	29	49·3	33·3	40·9	− 5·7	20	33	3	0·54	+0·09	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	50	32	48·7	36·6	42·4	− 0·4	25	15	2	0·45	?	*	*
	Glasgow	49	30	46·8	33·3	39·7	− 3·8	13	31	2	0·43	−0·13	35	38
	Ardrossan	48	33	45·9	34·3	39·8	− 3·5	11	28	4	0·39	−0·19	*	*
	Silloth (Cumberland)	50	26	48·1	32·6	40·0	− 4·6	17	35	3	1·10	+0·69	40	44
	Douglas (Isle of Man)	50	30	46·1	33·4	39·5	− 5·5	11	31	3	1·84	+1·32	42	46
7. ENGLAND, N.W.	Newton Reigny (Penrith)	51	25	46·5	29·4	37·5	− 5·3	13	44	3	0·26	?	38	42
	Barrow-in-Furness	48	32	46·4	34·3	40·1	− 5·6	12	28	4	0·92	?	*	*
	Stonyhurst	51	28	46·9	33·3	39·8	− 4·3	14	32	4	1·46	+0·84	40	44
	Blackpool ℳ	49	27	46·5	32·5	39·2	− 6·3	13	34	4	1·14	+0·79	42	46
	Manchester	51	29	47·6	32·6	39·7	− 3·8	16	34	4	0·90	+0·42	*	*
	Liverpool Obsy (Bidston)	52	31	47·9	35·6	41·5	− 3·6	17	25	4	1·04	+0·70	*	*
	Llandudno ℳ	51	32	49·0	35·1	41·7	− 4·3	20	27	4	0·78	+0·37	38	42
	Holyhead	52	34	48·0	36·3	41·9	− 4·3	17	22	3	1·08	+0·67	*	*
8. ENGLAND, S.W.	Llandovery	55	24	51·3	31·3	40·8	− 3·9	26	40	4	1·29	?	*	*
	Pembroke	47	35	45·9	37·9	41·7	− 5·0	11	16	3	1·24	+0·74	44	49
	Arlington (N. Devon)	55	30	47·4	33·7	40·2	− 4·1	15	30	4	1·33	?	*	*
	Cullompton ℳ	57	27	49·7	32·0	40·4	− 5·5	22	37	4	1·23	?	44	49
	Falmouth	52	35	47·1	38·3	42·5	− 4·5	19	10	4	1·12	+0·34	39	43
	Plymouth	53	31	49·4	35·7	42·2	− 5·1	28	18	3	0·94	+0·34	45	50
	Prawle Point	51	32	48·0	36·3	41·9	− 4·5	17	22	3	0·66	?	*	*
9. IRELAND, N.	Malin Head	50	37	49·0	37·4	42·9	− 0·8	26	13	5	0·66	?	*	*
	Londonderry	54	34	50·7	35·2	42·6	− 1·8	33	19	3	0·67	+0·09	*	*
	Mullaghmore	51	36	48·6	38·6	43·4	− 2·3	24	10	5	1·40	?	*	*
	Belmullet	50	36	46·9	37·9	42·2	− 4·5	19	11	6	1·63	?	*	*
	Markree Castle	52	28	48·6	32·6	40·2	− 4·6	18	35	5	1·32	+0·76	27	30
	Brookeborough	51	29	48·3	32·5	40·0	− 4·0	18	35	3	1·48	?	*	*
	Armagh	51	31	48·4	34·1	40·9	− 4·0	18	30	4	0·69	+0·20	36	40
	Donaghadee	51	31	47·4	34·3	40·5	− 5·2	15	28	3	0·94	+0·49	*	*
	Edgeworthstown	52	30	48·7	32·0	40·0	− 5·2	19	37	6	1·14	?	*	*
10. IRELAND, S.	Dublin	51	31	48·9	34·8	41·5	− 4·5	19	28	4	0·78	+0·30	45	49
	Parsonstown	54	29	49·9	32·4	40·7	− 4·2	22	36	5	1·25	+0·73	36	40
	Kilkenny	51	26	48·6	31·3	38·6	− 6·2	18	33	4	1·08	?	*	*
	Waterford	52	28	49·0	33·1	40·7	− 5·7	20	34	3	0·70	+0·01	*	*
	Roche's Point	52	33	50·1	37·3	43·4	− 3·1	30	13	3	1·04	+0·19	*	*
	Valencia	52	35	49·3	38·3	43·5	− 3·8	26	10	5	2·58	+1·66	39	43
	Killarney	51	29	49·4	32·4	40·5	− 5·4	21	36	6	1·63	?	*	*
	Foynes	52	34	49·6	36·6	42·8	− 2·7	28	15	5	1·23	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	50	40	48·6	41·6	44·9	− 3·3	22	1	4	0·95	+0·40	*	*
	Jersey (Noirmont)	53	37	48·3	39·6	43·7	− 3·0	22	7	3	0·68	+0·16	53	59

Stations marked ℳ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 15.] *New Series.* WEEK ENDING MONDAY, 13TH APRIL, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 yeers observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 60.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	50	27	47·0	35·8	41·1	1 below.	14	85	23	461
	1. SCOTLAND, EAST	49	27	46·5	36·7	41·3	3 below.	13	142	20	504
	2. ENGLAND, N.E.	48	30	44·0	38·0	40·8	4 below.	6	139	14	420
	3. ENGLAND, EAST	52	32	46·1	37·0	41·3	5 below.	11	204	19	504
	4. MIDLAND COUNTIES	52	32	46·3	36·8	41·3	5 below.	12	204	19	498
	5. ENGLAND, SOUTH	55	29	49·0	37·5	43·0	4 below.	26	264	13	381
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	54	30	48·9	37·0	42·7	3 below.	26	150	14	403
	7. ENGLAND, N.W.*	52	33	47·4	38·2	42·6	4 below.	20	158	11	390
	8. ENGLAND, S.W.	55	27	48·4	37·4	42·7	5 below.	24	268	13	304
	9. IRELAND, NORTH	54	26	48·8	37·3	42·8	4 below.	25	238	13	369
	10. IRELAND, SOUTH	53	29	50·4	37·1	43·4	4 below.	30	334	14	296
	— CHANNEL ISLANDS	54	39	48·5	41·0	44·5	4 below.	22	321	3	106

	DISTRICTS. (See p. 60.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	3	2 less.	70	10·0	51	252	53	25
	1. SCOTLAND, EAST	3	5	1 more.	51	6·3	21	268	22	26
	2. ENGLAND, N.E.	5	7	3 more.	53	5·5	2	129	2	12
	3. ENGLAND, EAST	5	5	1 more.	55	5·9	10	274	10	26
	4. MIDLAND COUNTIES	4	2	2 less.	58	7·0	6	221	6	21
	5. ENGLAND, SOUTH	3	1	4 less.	51	7·9	15	249	16	23
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	1	2	3 less.	61	12·9	31	258	33	24
	7. ENGLAND, N.W.*	3	1	3 less.	60	8·7	16	205	17	19
	8. ENGLAND, S.W.	3	1	5 less.	61	10·3	26	280	28	26
	9. IRELAND, NORTH	2	1	5 less.	63	9·7	26	273	27	26
	10. IRELAND, SOUTH	1	less than ½	7 less.	63	13·1	33	330	35	31†
	— CHANNEL ISLANDS	4	2	3 less.	70	9·3	33	354	35	32 †

General Remarks.

Weather has been generally fair or fine in the extreme west and north-west, but unusually dull and gloomy for the season in most other parts of the Kingdom, with occasional falls of cold rain.

Temperature has continued below the mean in all districts, the deficit varying from 1° to 3° in Scotland, and between 4° and 5° over England and Ireland. The maxima, which were recorded on the 12th or 13th, ranged from 48° in "England, N.E." and 49° in "Scotland, E.", to 55° in "England, S." and "England, S.W." The minima, which were registered on different dates in the various districts, ranged from 26° in "Ireland, N." to 32° in "England, E." and the "Midland Counties", and 39° in the "Channel Islands".

Rainfall has been more than the mean in "Scotland, E.", "England, N.E.", and "England, E.", but considerably less elsewhere.

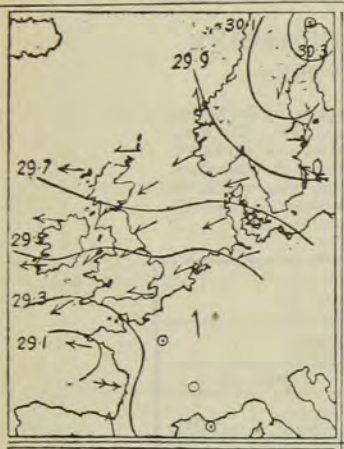
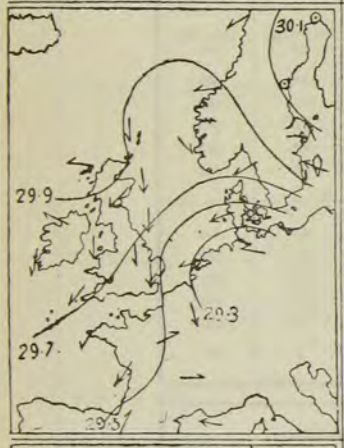
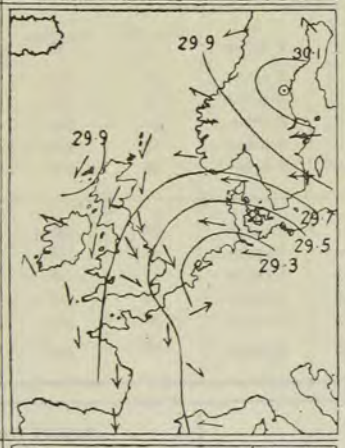
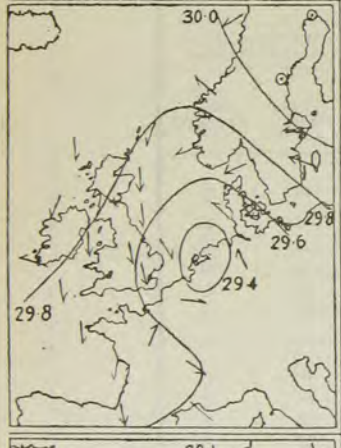
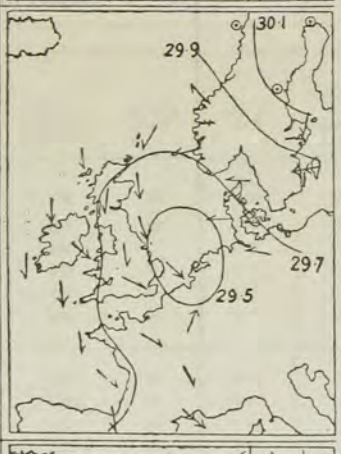
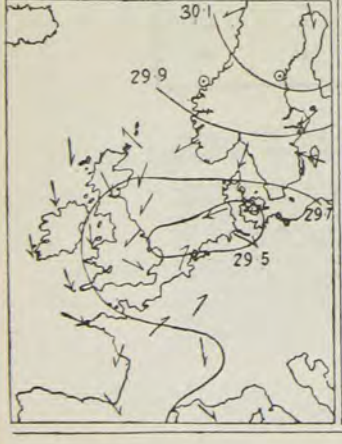
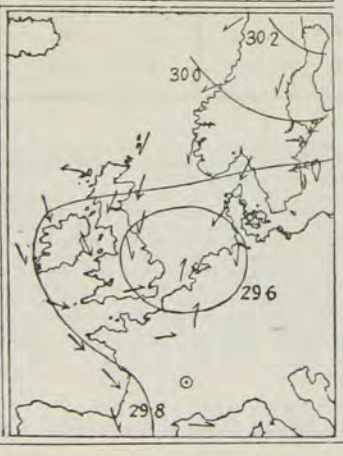
Bright sunshine shows an increase in "Scotland, N.", but a decrease in all other districts. In "England, N.E." only 2 °/₀ of the possible amount of duration was recorded, in the "Midland Counties" 6 °/₀, and in most other parts of England between 10°/₀ and 17°/₀; in "Scotland, W.", however, 33 °/₀ was registered, in "Ireland, S." and the "Channel Islands" 35 °/₀, and in "Scotland, N." as much as 53 °/₀.

Depressions observed.—As the period commenced the barometer was highest over Scandinavia, while a depression lay over the Bay of Biscay, the winds in our Islands consequently being moderate or fresh from the Eastward. On the following day this disturbance had disappeared, but another was approaching the North Sea from the Netherlands. This depression, after reaching the southern part of the North Sea and remaining almost stationary, finally developed into a large trough of relatively low readings stretching from the south of England to North Germany and Russia. As this disturbance appeared, the winds over the United Kingdom backed to the Northward, and on our east coasts blew strongly, but subsequently became light or moderate and generally North-Easterly or Easterly.

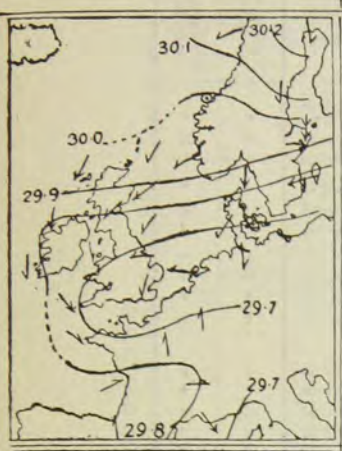
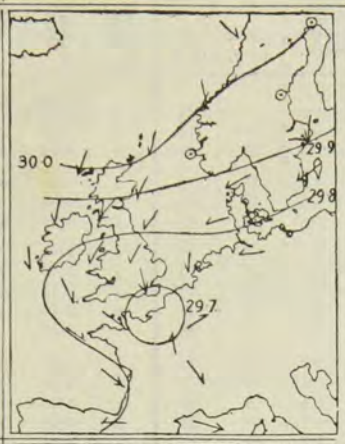
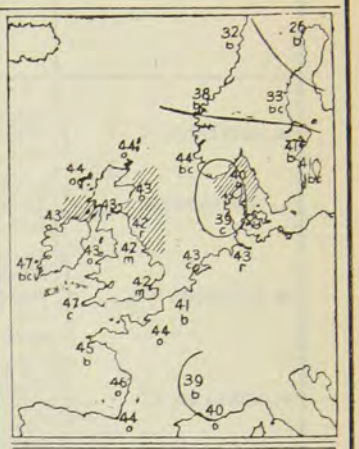
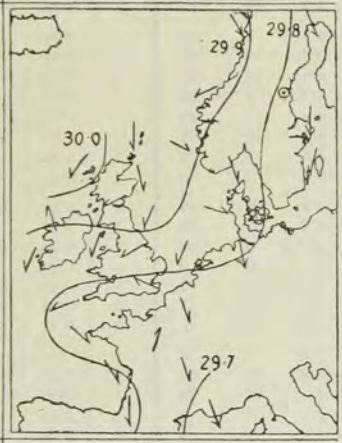
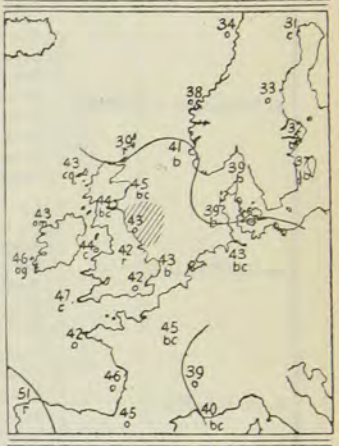
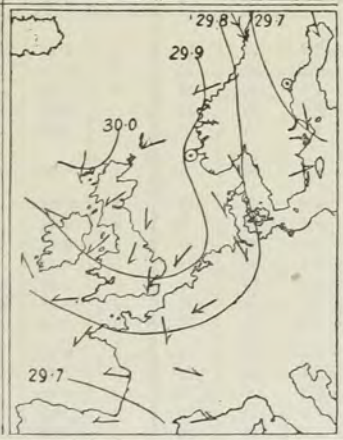
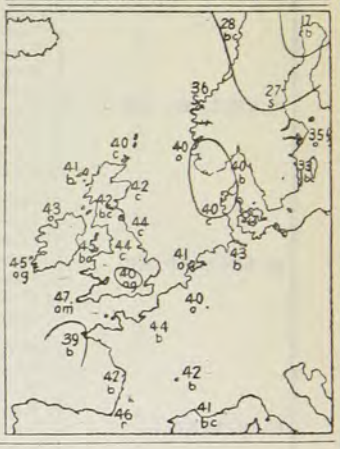
* Owing to the non-arrival of the Returns from Llandudno and Newton Reigny the accumulated values in this district are liable to alteration.
† The corresponding value in the Report for last week should read "32."

E 17106. 350.—4/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, April 7.** *Weather* fair in most places, but fog reported at Oxford and in London; rain at Brest and Lorient, and passing showers at Yarmouth. Showers falling later at several of our northern and eastern stations. *Temperature* fallen a few degrees over Central England; readings ranging from 45° at Belmullet, Scilly, and Dungeness to 39° in London. *Wind* moderate from South at Biarritz and strong to gale from West at Rochefort, but Easterly elsewhere; strong on the more exposed parts of our coasts. Subsequently backing to North-East in most places. *Sea* high at Scilly; rough on our north-east and south-west coasts generally. *Barometer* falling a little in the west of France, but rising elsewhere. Pressure highest in the north of Sweden, with a depression over the Bay of Biscay; intervening gradients moderate. Rise taking place later in west of France.	
		**Wednesday, April 8.** *Weather* rainy at Yarmouth and the Helder and dull at many of our south-eastern and southern stations, but fair or fine elsewhere. Showers falling later on most parts of our eastern and south-eastern coasts. Slight aurora seen at Stornoway in the evening. *Temperature* fallen slightly in most places; readings ranging from 45° at Scilly to 37° at Parsonstown and 36° at Nairn. Maxima below 45° in Central and Eastern England. *Wind* strong from North on our east coasts, but moderate North-Easterly or Easterly elsewhere. Subsequently backing to North in most parts of Great Britain. *Sea* rough on our east and north-east coasts. *Barometer* falling at all but our western stations. Pressure still highest in the north of Sweden, with large and well-defined depression lying over the Netherlands and North Germany. Slight rise taking place in the south later.	
		**Thursday, April 9.** *Weather* fine at our western and northern stations, but cloudy or overcast in the east, with rain in many places. Rain extending to Scotland later. *Temperature* risen slightly; readings ranging from 46° at Valencia and Scilly to 36° at Parsonstown. Maxima below 45° in the east of England. *Wind* strong Northerly on our east coasts and moderate North-Easterly in the west, but North-Westerly over the Channel and north of France, and South-Westerly in the north-east of France. Subsequently backing to North-West in the east of England. *Sea* rough off the east of England, moderate to smooth elsewhere. *Barometer* falling at all but our western and the French stations. Depression still lying over the Netherlands, but position of centre a little north-west of that occupied yesterday. No important change later.	
		**Friday, April 10.** *Weather* fine in Scandinavia and also at our western stations, but cloudy or overcast elsewhere, with rain over central England and the east of Scotland. Cold rain falling later at all but our south-western stations. *Temperature* risen slightly; readings ranging from 47° at Valencia to 38° at Cambridge. Maxima below 45° in the east of England. *Wind* light North-Easterly at our northern stations, but strong Northerly in the west, and moderate North-Westerly in the south. No important change later. *Sea* rough at Holyhead, rather rough at Sumburgh Head, Shields, and Malin Head. Moderate to smooth elsewhere. *Barometer* falling slightly in our Islands, but rising at most of the Continental stations. Band of low pressure extending from the Norfolk coast to North Germany. Slight rise taking place in our Islands later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, April 11.** *Weather* fine in Scandinavia, but cloudy or overcast elsewhere, with rain at most of our northern stations as well as at Hurst Castle. Rain ceasing later. *Temperature* little changed; readings ranging from 47° at Valencia and Scilly to 37° at Dungeness. *Wind* fresh or strong from North-East in Scandinavia, Denmark, and Scotland, but light or moderate from North-West or North in the southern parts of our Islands. *Sea* rough on our north-east coasts and at Malin Head, moderate to smooth elsewhere. *Barometer* rising generally. Shallow area of relatively low readings extending over England from central Europe; pressure still highest in Sweden. Rise continuing all day and area of low pressure slowly filling up.	
		**Sunday, April 12.** *Weather* rainy over central and eastern England as well as at Sumburgh Head, but fair or fine elsewhere. Rain ceasing later. *Temperature* very little changed; readings ranging from 47° at Scilly to 39° in the Shetlands. *Wind* light North-Easterly over our Islands and the eastern shores of the North Sea, but variable in France. *Sea* rather rough at Shields, slight or smooth elsewhere.' *Barometer* rising at all but the Scandinavian stations. Pressure now highest in the north of Scotland, with band of relatively low readings extending from central Europe to our south-west coasts. Slight fall taking place in north later.	
		**Monday, April 13.** *Weather* fair on the whole, but cloudy and misty at many of our western and southern stations. *Temperature* fallen slightly n Scotland and France, but little changed elsewhere; readings ranging from 47° at Scily to 39° at Loughborough. Frost occurring in the north and east of Scotland at night. *Wind* moderate, Northerly on the eastern shores of the North Sea, but North-Easterly or Easterly elsewhere. Subsequently shifting to south-east in Ireland, and the west of Scotland. *Sea* slight or smooth generally. *Barometer* rising at all but the Scandinavian stations. Area of high pressure over Scotland, with relatively low readings in Sweden and the South of France. No important charge later.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 57 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	47	33	45·0	36·1	40·3	− 1·6	8	21	7	0·50	−0·06	*	*
	Stornoway	50	33	48·1	36·9	42·3	− 0·9	24	14	3	0·13	−0·52	51	53
	Wick	50	27	48·0	34·3	40·8	− 1·5	17	29	2	0·25	−0·14	*	*
1. SCOTLAND, E.	Nairn	49	27	47·3	35·7	41·2	− 2·5	15	24	4	0·30	−0·01	*	*
	Aberdeen	47	33	46·3	36·7	41·2	− 1·6	12	19	3	0·49	−0·05	21	22
	Leith	49	34	46·0	37·6	41·6	− 3·5	11	17	3	0·82	+0·42	*	*
2. ENGLAND, N.E.	Alnwick Castle	44	30	42·7	36·3	39·1	− 4·5	2	18	3	1·68	?	*	*
	Shields	46	35	44·1	38·1	41·0	− 3·5	6	14	4	0·64	+0·20	*	*
	Scarborough ℳ	47	38	43·3	38·9	40·8	− 3·5	4	10	6	0·80	+0·38	*	*
	York	48	37	46·1	38·3	42·0	− 3·7	11	10	5	0·10	−0·32	2	2
	Spurn Head	45	37	43·9	38·7	41·2	− 4·0	5	12	6	0·44	?	*	*
3. ENGLAND, E.	Hillington ℳ	51	35	46·4	37·6	41·8	− 3·2	12	17	5	0·87	+0·46	8	8
	Yarmouth	47	38	44·3	39·0	41·5	− 4·2	6	11	5	0·49	+0·07	*	*
	Geldeston	50	33	45·3	37·1	41·0	− 5·4	9	18	4	0·61	+0·27	15	16
	Cambridge	52	32	48·4	36·0	41·9	− 4·9	18	23	5	0·46	+0·06	6	6
	Rothamsted	50	32	46·2	35·2	40·4	− 6·0	12	25	4	0·20	−0·30	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	47	35	45·0	38·0	41·3	− 4·1	8	15	5	0·34	−0·06	*	*
	Loughborough	49	36	46·4	37·7	41·9	− 4·4	12	17	5	0·37	−0·03	*	*
	Leicester	50	35	46·6	37·5	41·8	− 4·1	13	17	5	0·35	−0·07	1	1
	Cheadle ℳ	48	34	44·7	35·9	40·2	− 4·2	8	23	5	0·14	?	*	*
	Churchstoke ℳ	48	32	44·6	35·1	39·6	− 6·4	7	24	3	0·15	?	4	4
	Hereford ℳ	52	34	47·9	37·3	42·4	− 4·4	23	13	3	0·09	−0·32	*	*
	Cirencester	50	32	47·6	35·7	41·4	− 4·7	16	24	3	0·07	−0·46	12	13
	Oxford	52	32	47·6	36·9	42·0	− 5·3	16	14	1	0·35	−0·07	7	7
5. ENGLAND, S.	London†	55	35	48·9	37·7	43·0	− 4·9	25	12	2	0·06	−0·37	3	3
	Marlborough ℳ	51	32	47·5	34·5	40·7	− 5·1	15	28	2	0·09	−0·46	11	12
	Strathfield Turgiss ℳ	53	29	49·3	36·3	42·5	− 4·3	27	16	2	0·14	−0·31	*	*
	Dungeness	51	36	48·3	38·9	43·4	− 4·7	23	9	4	0·14	?	*	*
	Hastings (St. Leonard's)	53	36	49·0	38·6	43·6	− 3·6	25	10	5	0·09	−0·39	25	27
	Southampton	55	36	51·0	38·2	44·3	− 3·2	32	11	3	0·20	−0·30	20	21
	Hurst Castle	51	36	49·1	38·0	43·3	− 4·7	26	11	2	0·11	−0·35	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	51	39	49·9	36·3	42·8	− 1·8	30	16	0	—	?	*	*
	Glasgow	50	32	47·4	36·1	41·5	− 3·2	15	23	2	0·38	−0·18	29	31
	Ardrossan	52	32	49·4	36·3	42·5	− 2·3	27	16	1	0·23	−0·34	*	*
	Silloth (Cumberland)	54	31	49·6	37·3	43·2	− 2·8	28	13	2	0·12	−0·31	31	33
	Douglas (Isle of Man)	51	34	48·4	38·9	43·4	− 2·8	23	9	2	0·08	−0·42	34	36
7. ENGLAND, N.W.	Newton Reigny (Penrith)													
	Barrow-in-Furness	51	36	49·4	38·1	43·5	− 3·4	27	11	2	0·15	?	*	*
	Stonyhurst	50	35	47·7	37·1	42·2	− 3·3	22	14	4	0·12	−0·47	15	16
	Blackpool ℳ	50	33	48·1	37·3	42·4	− 4·3	23	13	3	0·19	−0·16	16	17
	Manchester	48	36	45·6	37·4	41·3	− 3·7	10	17	3	0·07	−0·40	*	*
	Liverpool Obsy (Bidston)	51	36	47·1	38·6	42·7	− 3·7	19	10	5	0·20	−0·13	*	*
	Llandudno ℳ													
	Holyhead	52	40	46·6	40·7	43·5	− 4·1	16	4	1	0·01	−0·40	*	*
8. ENGLAND, S.W.	Llandovery	55	27	49·4	35·3	42·0	− 4·8	21	19	3	0·07	?	*	*
	Pembroke	51	36	47·9	39·1	43·4	− 4·7	22	8	2	0·04	−0·51	41	44
	Arlington (N. Devon)	50	31	46·6	35·3	40·7	− 6·3	13	25	2	0·24	−0·45	*	*
	Cullompton ℳ	51	32	48·7	36·7	42·4	− 5·1	25	15	3	0·13	?	12	13
	Falmouth	49	37	47·0	39·6	43·1	− 5·0	18	7	3	0·09	−0·69	26	28
	Plymouth	52	33	50·4	37·7	43·8	− 4·9	31	12	4	0·08	−0·52	26	28
	Prawle Point	52	35	49·0	38·0	43·2	− 4·5	25	11	2	0·10	?	*	*
9. IRELAND, N.	Malin Head	50	37	48·0	39·6	43·6	− 1·3	21	7	3	0·12	?	*	*
	Londonderry	54	31	49·9	37·2	43·3	− 2·5	29	13	3	0·15	−0·44	*	*
	Mullaghmore	51	36	48·7	40·1	44·2	− 2·7	23	5	2	0·06	?	*	*
	Belmullet	52	36	49·3	39·0	43·9	− 3·5	26	8	3	0·11	?	*	*
	Markree Castle	52	26	49 0	34·6	41·5	− 4·5	20	29	2	0·04	−0·56	31	33
	Brookeborough	51	30	48·6	36·3	42·2	− 3·4	25	16	0	—	?	*	*
	Armagh	51	29	48·6	35·0	41·5	− 4·5	18	27	3	0·10	−0·40	20	21
	Donaghadee	50	37	48·0	39·4	43·5	− 3·2	21	7	1	0·07	−0·39	*	*
	Edgeworthstown	51	31	49·1	34·9	41·7	− 5·5	20	28	2	0·08	?	*	*
10. IRELAND, S.	Dublin	51	32	48·3	39·0	43·4	− 4·8	22	8	3	0·08	−0·42	22	23
	Parsonstown	53	30	49·4	35·3	42·0	− 4·5	21	19	1	0·02	−0·48	33	35
	Kilkenny	52	32	48·7	37·6	42·9	− 3·1	25	12	0	—	?	*	*
	Waterford	53	32	50·2	37·4	43·5	− 4·1	30	13	0	—	−0·66	*	*
	Roche's Point	53	36	51·7	38·1	44·6	− 3·1	35	11	0	—	−0·84	*	*
	Valencia	53	35	51·9	38·9	45·1	− 3·1	35	9	0	—	−0·94	43	46
	Killarney	53	29	51·3	33·9	42·3	− 4·8	36	23	0	—	?	*	*
	Foynes	53	35	51·4	36·6	43·6	− 3·0	34	15	4	0·09	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	51	41	48·6	42·0	45·1	− 3·9	22	0	2	0·16	−0·39	*	*
	Jersey (Noirmont)	54	39	48·3	39·9	43·9	− 4·3	22	6	5	0·21	−0·28	33	35

Stations marked ℳ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 16.] *New Series.* WEEK ENDING MONDAY, 20TH APRIL, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 64.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42°: For the Week.	Above 42°: Since Dec. 30/84.	Below 42°: For the Week.	Below 42°: Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	59	29	51·2	37·8	44·2	1 above.	33	118	12	473
	1. SCOTLAND, EAST	67	28	54·6	36·0	44·9	0 (average).	46	188	17	521
	2. ENGLAND, N.E.	69	29	52·5	37·9	44·9	1 below.	38	177	11	431
	3. ENGLAND, EAST	72	30	57·1	36·4	46·2	2 below.	53	257	16	520
	4. MIDLAND COUNTIES	72	28	57·9	36·0	46·4	1 below.	56	260	17	515
	5. ENGLAND, SOUTH	73	30	59·1	39·8	49·0	0 (average).	58	322	6	387
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	64	29	53·7	38·5	45·7	1 below.	41	191	10	413
	7. ENGLAND, N.W.	64	25	54·1	37·3	45·1	3 below.	41	198 *	13	403
	8. ENGLAND, S.W.	71	31	56·0	39·1	47·1	2 below.	48	316	8	312
	9. IRELAND, NORTH	65	27	54·9	39·2	46·7	1 below.	45	283	8	377
	10. IRELAND, SOUTH	67	28	55·5	38·5	46·6	2 below.	47	381	10	306
	— CHANNEL ISLANDS	65	42	54·3	44·2	49·0	1 below.	49	370	0	105

	DISTRICTS. (See p. 64.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	2	3 less.	72	10·2	42	294	42	26
	1. SCOTLAND, EAST	1	less than ½	4 less.	52	6·3	55	323	55	28
	2. ENGLAND, N.E.	1	1	4 less.	54	5·6	26	155	27	13
	3. ENGLAND, EAST	1	3	2 less.	56	6·2	54	328	56	28
	4. MIDLAND COUNTIES	2	4	0 (average).	60	7·4	47	268	48	23
	5. ENGLAND, SOUTH	2	4	1 less.	53	8·3	49	298	51	26
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	2	3	3 less.	63	13·2	44	302	45	25
	7. ENGLAND, N.W.	2	2	2 less.	62	8·9	41	246	42	21
	8. ENGLAND, S.W.	1	2	4 less.	62	10·5	52	332	54	28
	9. IRELAND, NORTH	2	3	3 less.	65	10·0	35	308	36	27
	10. IRELAND, SOUTH	2	2	5 less.	65	13·3	32	361 *	33	31
	— CHANNEL ISLANDS	3	1	5 less.	73	9·4	61	415	64	35

General Remarks.

Weather was generally cloudy or dull during the earlier part of the period, with some rain at many of the Irish and English stations, the fall being heaviest in London. The latter part of the week, however, was generally bright and genial—especially in the English districts. Thunder was heard at Rothamsted on the 16th and also at Jersey on the 17th.

Temperature continued low for the season till the 17th, when it became much higher than of late, so that the averages for the week do not differ materially from the mean values. In Scotland they varied from 1° above to 1° below, in "England, S." the mean was about equalled, while in nearly all other districts they were 1° or 2° below. The maxima were registered on the 19th or 20th, when the thermometer rose to 73° in "England, S.", 72° in "England, E." and the "Midland Counties", 71° in "England, S.W.", and to between 64° and 69° in most other parts of the Kingdom; in "Scotland, N.", however, the highest point reached was 59°. The minima, which were generally recorded on the 14th or 15th, were as low as 25° in "England, N.W." (at Newton Reigny), 27° in "Ireland, N.", and between 28° and 31° in all other districts except the "Channel Islands", where the lowest reading was 42°.

Rainfall has been about equal to the mean in the "Midland Counties", but less elsewhere.

Bright sunshine shows a general and very decided increase, the percentages of the possible duration varying from 27 in "England, N.E." and 33 in "Ireland, S." to between 51 and 56 in the east, south, and south-west of England and the east of Scotland, and to 64 in the "Channel Islands".

Depressions observed.—Beyond a small shallow disturbance which advanced over Brittany on the 15th and spread over France on the following day, no depressions appeared in the immediate neighbourhood of our Islands till the end of the period, when the high pressure area which had prevailed over Scandinavia, the North Sea, and the United Kingdom was giving way, and depressions had commenced to pass in a north-easterly direction outside our extreme north-western and northern coasts. North-Easterly to Easterly winds prevailed during the greater part of the week, but as it drew towards its close they gave place to Southerly and South-Westerly winds on all our coasts, and in the north of Scotland these attained the force of a gale for a short time on Sunday night.

* These values have been altered slightly owing to the receipt of some arrears of observations.

E 17217. 350.—4/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts.

PRESSURE AND WIND.

8 a.m.	6 p.m.

Weather

During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.

Tuesday, April 14.

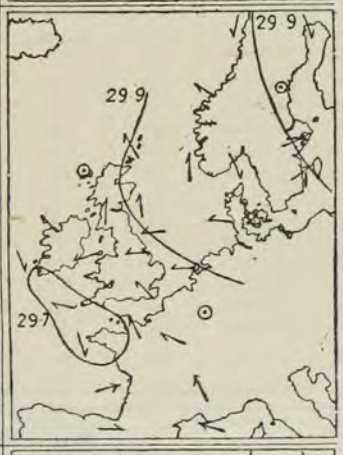
Weather fair on the whole, but cloudy at most of the southern stations as well as in Scandinavia, with snow at Christiansund. Heavy rain and hail falling at Valencia later, and slight rain in the south-east of England.

Temperature fallen slightly in most places; readings ranging from 47° at Roche's Point and Scilly to 39° at Oxford, 38° at Nairn, and 36° at Parsonstown. Frost occurring at night in some parts of Central England.

Wind light Northerly on our north and east coasts, but Easterly in the west and south. Subsequently shifting to East in the east of England.

Sea moderate to smooth.

Barometer falling a little generally. Large area of relatively high readings lying over the greater part of the United Kingdom, with lowest pressures in Sweden and comparatively low pressures in the south of France. No important change later.



Wednesday, April 15.

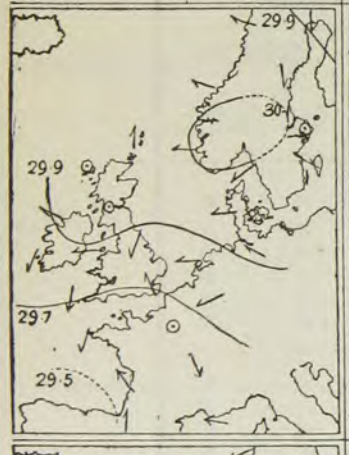
Weather fair in nearly all parts of our Islands, but rain falling at Jersey, Brest, and Biarritz, and snow at Haparanda and Hernösand. Distant thunder heard at Jersey during day.

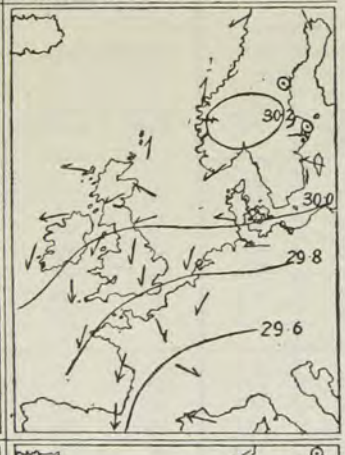
Temperature risen slightly in Scotland and France, but little changed elsewhere; readings ranging from 46° at Scilly to 37° at Oxford and 36° at Parsonstown.

Wind strong Northerly or North-Westerly in Sweden, but light from South-East or South in Scotland and moderate from East or North-East in England, Ireland, and the north of France. Subsequently veering to South-East on our western and southern coasts.

Sea moderate to smooth.

Barometer rising at most of the Continental stations, but falling a little in all parts of the United Kingdom. Area of high readings noticed on previous day now lying over the North Sea, and small depression shown near Jersey. Depression subsequently resolving itself into elongated system of low pressure stretching from the Channel Islands to the south of Ireland.





Thursday, April 16.

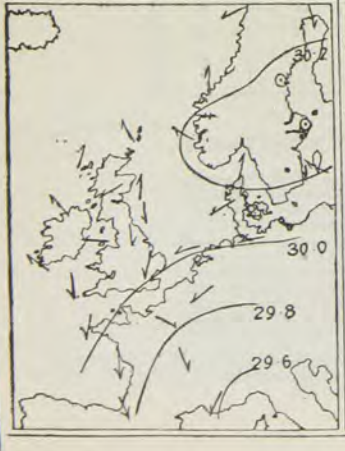
Weather very rainy in the north-west of England as well as in London and at Biarritz, but fair in most other localities. Rain experienced later in many parts of England, and heavy snow falling at Liverpool.

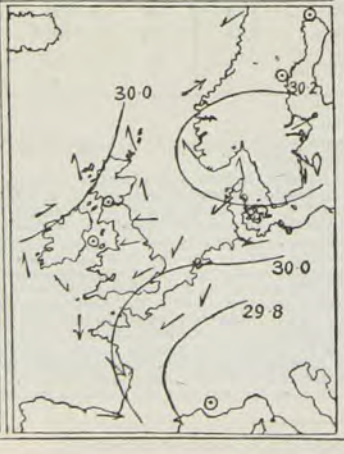
Temperature risen slightly in the south-east of England, but fallen in Scotland; readings ranging from 47° at Scilly to 37° at Liverpool. Frost occurring in Scotland at night.

Wind light from South-East and South in the north and east of Scotland, but moderate to fresh from East or North-East elsewhere.

Sea rather rough off the east of England.

Barometer rising a little at all but the French and our south-western stations. Anticyclone lying over Scandinavia, with lowest readings over the north of Spain. Rise taking place later at all but the eastern French stations.





Friday, April 17.

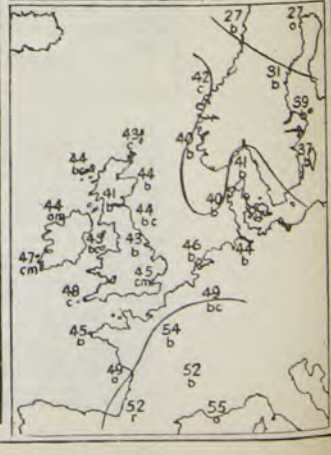
Weather dull over the central parts of Ireland and England, but fair or fine in all other localities. Rain falling later in the west of Ireland, but sky clearing over central England.

Temperature risen a little in most places; readings ranging from 48° at Scilly to 33° at Nairn. Slight frost occurring in many parts of Great Britain at night.

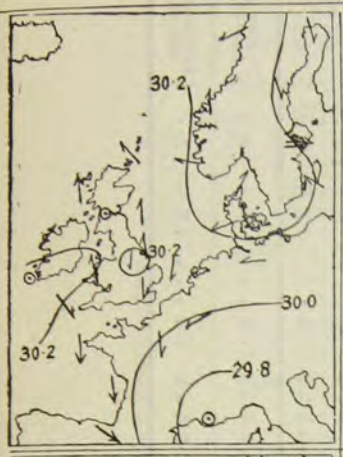
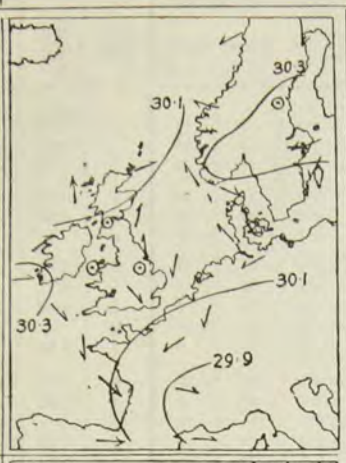
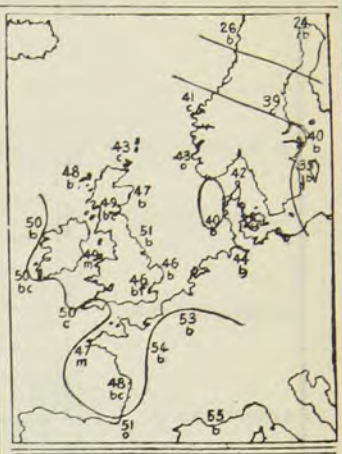
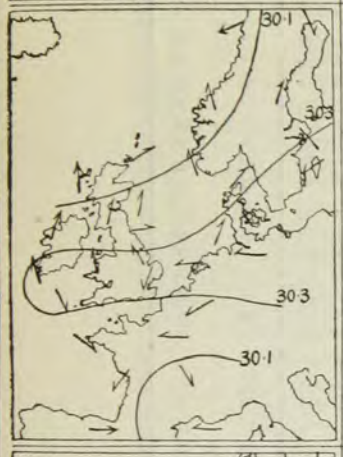
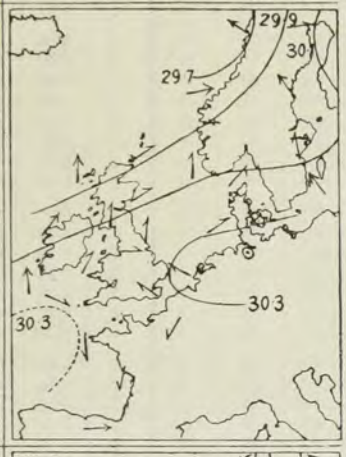
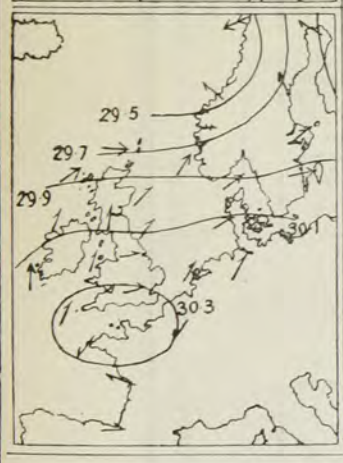
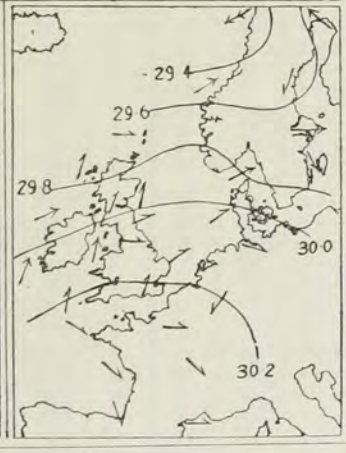
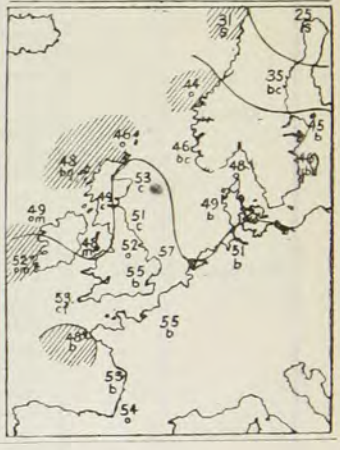
Wind light South-Easterly in Ireland and Scotland, but moderate Northerly or North-Easterly elsewhere. Subsequently veering to South-West in Ireland.

Sea moderate to smooth.

Barometer rising generally. Anticyclone still lying over Scandinavia, with lowest pressures in the south-east of France, but relatively low pressure to the south-westward of our Island. Slight fall taking place on our western and northern coasts later.



SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, April 18.** *Weather* fine generally, but with mist or fog locally. Mist clearing later. *Temperature* risen a few degrees; readings ranging from 54° at Prawle Point to 43° at Sumburgh Head and York. Subsequently rising to 66° in London and at Cambridge, 67° at York, and 68° at Loughborough. *Wind* Southerly on our north and north-west coasts, but Northerly or North-Easterly at our eastern, southern, and the French stations; light or moderate in force generally. *Sea* moderate to smooth. *Barometer* rising at all but our extreme northern stations. Anticyclone still lying over Scandinavia, but new high pressure system appearing over Ireland. Readings lowest in the south-east of France and relatively low in the north and north-west of Scotland. Rise extending to our northern stations later.	
		**Sunday, April 19.** *Weather* dull in Scandinavia, the extreme north of Scotland, and south of France, but fair or fine elsewhere. Rain falling later on our north and north-west coasts. *Temperature* risen in most places, quickly in the north of Scotland; readings varying from 58° at Aberdeen to 42° at York. Subsequently rising to 69° at York and in London, 70° at Oxford and Cambridge, and 72° at Loughborough. *Wind* fresh Southerly or South-Westerly on our north and north-west coasts, but light North-Easterly at our southern and the French stations. Increasing to fresh gale from South-West in the north and north-east of Scotland at night. *Sea* rather rough at Stornoway and Scilly, moderate to smooth elsewhere. *Barometer* rising at all but the extreme western and northern stations. Long band of high pressure extending from North Germany to the south of Ireland with area of relatively low readings to the northward of our Islands and over the south-east of France. Depression subsequently skirting our north-west coasts in a north-easterly direction.	
		**Monday, April 20.** *Weather* dull in Ireland, but fair or fine in all other parts of our islands and France. Rain falling in west and north later, but weather remaining fine in south-east. *Temperature* risen in south, but fallen slightly in west and north; readings ranging from 57° at Cambridge and Yarmouth, to 46° at Sumburgh Head. Subsequently rising to 70° at Yarmouth, 71° at Loughborough and Cambridge, and 73° in London. *Wind* Easterly in France, but South-Westerly or Westerly elsewhere. Strong in force in the north of Scotland. Subsequently increasing to strong breeze from South and South-West in Ireland. *Sea* rough off the north of Scotland, as well as at Valencia, moderate to smooth elsewhere. *Barometer* falling at all but our extreme southern and the French stations. Anticyclone lying over the Channel and north of France, with large depression off the west of Norway. Fall extending to our southern stations later.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 61 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	53	33	47·9	37·6	42·5	− 0·4	22	12	2	0·15	−0·40	*	*
	Stornoway	53	29	51·7	36·9	43·9	− 0·3	35	14	2	0·18	−0·43	42	42
	Wick	59	32	54·0	39·0	46·1	+ 2·4	41	8	1	0·25	−0·14	*	*
1. SCOTLAND, E.	Nairn	62	28	54·3	36·1	44·8	0·0	44	17	1	0·10	−0·20	*	*
	Aberdeen	65	29	54·1	35·7	44·5	+ 0·2	44	18	2	0·02	−0·52	55	55
	Leith	67	30	55·4	36·1	45·3	− 0·7	48	17	0	—	−0·40	*	*
2. ENGLAND, N.E.	Alnwick Castle	62	30	50·4	38·6	44·2	− 0·9	30	10	1	0·04	?	*	*
	Shields	67	33	52·3	38·7	45·2	− 0·3	36	9	3	0·11	−0·34	*	*
	Scarborough ℳ	68	36	52·4	39·5	45·6	− 0·3	36	7	2	0·08	−0·35	*	*
	York	69	29	57·7	33·9	45·2	− 1·8	56	23	0	—	−0·42	26	27
	Spurn Head	62	37	49·7	39·0	44·1	− 2·5	27	8	1	0·02	?	*	*
3. ENGLAND, E.	Hillington ℳ	71	30	59·7	36·1	47·3	− 0·1	62	17	0	0·01§	−0·43	54	56
	Yarmouth	70	33	52·7	39·4	45·7	− 2·3	37	7	1	0·01	−0·41	*	*
	Geldeston	71	30	55·9	36·2	45·6	− 2·3	50	16	0	—	−0·33	61	63
	Cambridge	71	30	59·9	34·6	46·6	− 1·9	63	21	2	0·39	−0·01	48	49
	Rothamsted	72	31	57·4	35·7	46·0	− 1·7	54	18	3	0·88	+0·35	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	71	31	57·7	35·9	46·3	− 1·2	56	17	1	0·03	−0·37	*	*
	Loughborough	72	32	59·4	35·9	47·1	− 0·6	61	17	2	0·60	+0·20	*	*
	Leicester	72	33	59·3	37·2	47·7	+ 0·2	60	13	2	0·83	+0·41	42	43
	Cheadle ℳ	66	32	55·7	36·8	45·8	0·0	48	15	2	0·66	?	*	*
	Churchstoke ℳ	68	28	56·0	33·1	44·0	− 3·5	51	25	2	0·31	?	42	43
	Hereford ℳ	72	33	58·5	35·5	46·6	− 1·7	60	18	2	0·32	−0·08	*	*
	Cirencester	68	33	57·3	35·4	45·8	− 1·6	54	18	2	0·28	−0·28	50	52
	Oxford	70	33	59·4	38·1	48·2	+ 0·8	60	11	2	0·38	−0·04	52	54
5. ENGLAND, S.	London†	73	37	60·7	40·0	49·9	+ 0·5	64	6	2	0·97	+0·52	42	43
	Marlborough ℳ	71	30	58·7	36·8	47·2	+ 0·4	58	15	2	0·24	−0·32	48	49
	Strathfield Turgiss ℳ	73	33	61·5	37·5	48·9	+ 1·1	67	13	2	0·16	−0·29	*	*
	Dungeness	59	36	51·4	41·7	47·8	− 1·6	42	1	2	0·33	?	*	*
	Hastings (St. Leonard's)	67	37	59·1	42·2	50·2	+ 2·3	57	0	2	0·73	+0·25	58	60
	Southampton	72	33	62·0	40·1	50·5	+ 1·6	67	5	2	0·27	−0·25	49	51
	Hurst Castle	65	34	57·0	40·3	48·3	− 0·7	51	5	1	0·04	−0·42	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	60	34	55·6	40·5	47·7	+ 2·0	46	4	2	0·60	?	*	*
	Glasgow	60	35	53·6	39·5	46·2	+ 0·5	49	7	2	0·16	−0·41	33	33
	Ardrossan	58	34	51·9	38·9	45·1	− 0·6	35	9	1	0·19	−0·38	*	*
	Silloth (Cumberland)	64	29	56·0	35·7	45·4	− 1·8	50	18	1	0·36	−0·06	53	54
	Douglas (Isle of Man)	59	32	51·3	37·8	44·2	− 2·8	33	12	2	0·13	−0·33	46	47
7. ENGLAND, N.W.	Newton Reigny (Penrith)	64	25	54·6	33·9	43·8	− 1·7	47	23	1	0·12	?	45	46
	Barrow-in-Furness	61	34	52·1	38·1	44·8	− 3·2	36	11	2	0·11	?	*	*
	Stonyhurst	61	30	53·9	35·0	44·0	− 2·8	43	20	2	0·14	−0·41	38	39
	Blackpool ℳ	61	30	53·6	33·9	43·4	− 4·8	44	23	1	0·15	−0·17	37	38
	Manchester	64	32	55·1	36·1	45·1	− 2·2	46	17	1	0·02	−0·43	*	*
	Liverpool Obsy (Bidston)	62	34	54·6	39·6	46·7	− 0·8	43	7	2	0·45	+0·12	*	*
	Llandudno ℳ	61	34	53·1	40·7	46·6	− 2·4	38	4	2	0·30	−0·10	43	44
	Holyhead	59	38	52·0	40·9	46·2	− 2·5	34	3	2	0·21	−0·19	*	*
8. ENGLAND, S.W.	Llandovery	71	31	60·1	35·3	46·1	− 2·6	57	19	1	0·03	?	*	*
	Pembroke	58	38	51·3	41·4	46·1	− 2·9	31	2	2	0·22	−0·24	46	47
	Arlington (N. Devon)	66	35	56·4	35·4	45·9	− 2·0	51	16	1	0·07	?	*	*
	Cullompton ℳ	71	34	58·5	35·9	46·7	− 2·1	59	17	1	0·07	?	45	46
	Falmouth	62	39	53·3	42·6	47·7	− 1·4	40	0	2	0·08	−0·69	59	61
	Plymouth	65	38	56·6	40·5	48·2	− 1·6	50	4	1	0·35	−0·25	58	60
	Prawle Point	65	38	56·1	41·9	48·7	0·0	47	0	1	0·43	?	*	*
9. IRELAND, N.	Malin Head	62	38	53·7	41·6	47·3	+ 0·9	39	1	?	?	?	*	*
	Londonderry	65	32	56·6	38·3	47·0	+ 0·1	51	10	2	0·23	−0·37	*	*
	Mullaghmore	63	40	55·4	43·0	48·9	+ 1·2	48	0	3	0·60	?	*	*
	Belmullet	55	37	52·9	42·4	47·4	− 0·6	38	0	3	0·76	?	*	*
	Markree Castle	62	27	55·6	36·0	45·3	− 2·2	48	17	3	0·21	−0·36	39	40
	Brookeborough	63	28	56·2	36·0	45·6	− 1·6	50	17	1	0·18	?	*	*
	Armagh	64	32	54·8	38·2	46·1	− 1·2	45	11	2	0·06	−0·46	30	31
	Donaghadee	63	35	53·1	40·4	46·5	− 1·1	38	4	1	0·06	−0·41	*	*
	Edgeworthstown	65	31	55·7	36·9	45·9	− 2·1	49	14	2	0·15	?	*	*
10. IRELAND, S.	Dublin	66	36	55·8	41·3	48·2	− 0·2	46	2	1	0·01	−0·50	33	34
	Parsonstown	67	30	56·3	36·1	45·7	− 2·3	51	17	1	0·03	−0·47	33	34
	Kilkenny	65	29	55·3	36·1	45·2	− 2·4	47	17	1	0·07	?	*	*
	Waterford	64	31	54·9	37·4	45·7	− 2·8	45	13	1	0·02	−0·63	*	*
	Roche's Point	59	36	53·3	40·7	46·7	− 2·0	38	4	1	0·18	−0·64	*	*
	Valencia	57	36	54·3	40·0	46·8	− 2·5	42	6	5	0·90	−0·02	30	31
	Killarney	62	28	55·2	36·7	45·5	− 3·0	47	15	2	0·14	?	*	*
	Foynes	65	37	59·1	40·0	49·1	+ 1·4	58	6	2	0·07	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	43	51·9	44·4	48·0	− 1·8	42	0	3	0·03	−0·54	*	*
	Jersey (Noirmont)	65	42	56·6	44·0	50·0	+ 0·6	56	0	2	0·13	−0·45	61	64

Stations marked ℳ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Chiefly dew.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 17.] *New Series.* WEEK ENDING MONDAY, 27TH APRIL, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 68.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	55	34	51·8	41·3	46·4	2 above.	34	152	2	475
	1. SCOTLAND, EAST	63	34	56·6	42·9	49·4	3 above.	52	240	0	521
	2. ENGLAND, N.E.	67	34	58·0	43·8	50·6	4 above.	60	237	0	431
	3. ENGLAND, EAST	73	37	62·3	44·3	52·8	4 above.	76	333	0	520
	4. MIDLAND COUNTIES	72	31	60·6	42·1	50·9	2 above.	62	322	0	515
	5. ENGLAND, SOUTH	72	35	59·2	45·2	51·9	2 above.	69	391	0	387
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	59	35	52·3	43·6	47·7	1 above.	40	231	0	413
	7. ENGLAND, N.W.	61	32	54·6	43·4	48·7	0 (average).	47	245	0	403
	8. ENGLAND, S.W.	68	33	55·2	43·5	49·1	1 below.	50	366	0	312
	9. IRELAND, NORTH	60	33	54·7	43·4	48·7	0 (average).	47	330	0	377
	10. IRELAND, SOUTH †	59	34	54·1	43·7	48·6	1 below.	46	427	0	306
	— CHANNEL ISLANDS	66	44	56·2	45·9	50·8	1 above.	62	432	0	106

	DISTRICTS. (See p. 68.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	6	1 more.	76	10·8	36	330	35	27
	1. SCOTLAND, EAST	3	5	1 more.	55	6·8	33	356	32	29
	2. ENGLAND, N.E.	5	6	1 more.	59	6·2	20	175	20	14
	3. ENGLAND, EAST	3	5	0 (average).	59	6·7	52	380	52	30
	4. MIDLAND COUNTIES	4	5	1 more.	64	7·9	42	310	42	24
	5. ENGLAND, SOUTH	4	3	1 less.	57	8·6	47	345	47	27
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	15	8 more.	68	14·7	28	330	27	26
	7. ENGLAND, N.W.	5	9	5 more.	67	9·8	29	275	29	22
	8. ENGLAND, S.W.	5	11	5 more.	67	11·6	41	373	41	29
	9. IRELAND, NORTH	6	12	7 more.	71	11·2	22	330	22	26
	10. IRELAND, SOUTH †	7	22	16 more.	72	15·5	24	388 *	24	31
	— CHANNEL ISLANDS	6	8	3 more.	79	10·2	51	466	52	36

General Remarks.

Weather has been generally dull and rainy in the west and north-west, but in most other parts of the Kingdom the sky has been comparatively clear and the fall of rain less. At many of the English and Irish stations thunderstorms were experienced, chiefly on the 25th or 26th.

Temperature has continued a little below the mean in "England, S.W." and "Ireland, S.", while in "England, N.W." and "Ireland, N." it has been about equal to its normal value; but in all other districts an excess is shown, the amount over the north-east and east of England being as much as 4°. The maxima, which were generally registered on the 21st, varied from 55° in "Scotland, N." and 59° in "Scotland, W." and "Ireland, S.", to 72° or 73° over central, southern, and eastern England. The minima, which were recorded in most places on the 27th, ranged from 31° in the "Midland Counties" to 37° in "England, E.", and to 44° in the "Channel Islands".

Rainfall has been about equal to the mean in "England, E." and a little less in "England, S.", but more in all other districts, the excess in "Ireland, S." being very considerable.

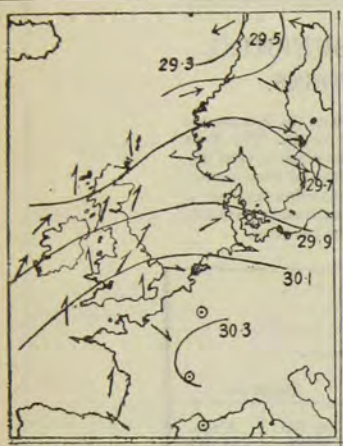
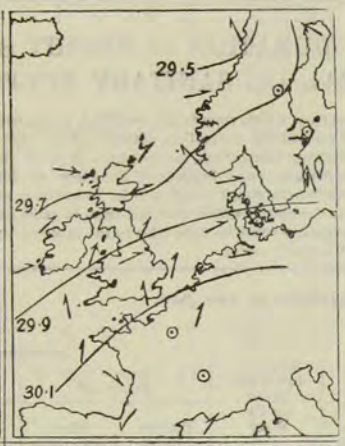
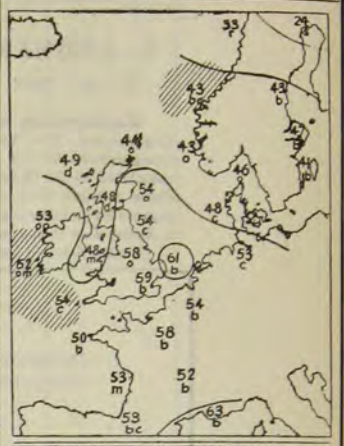
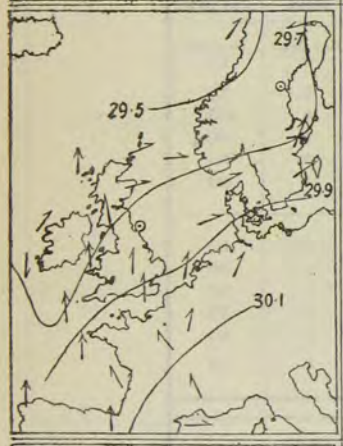
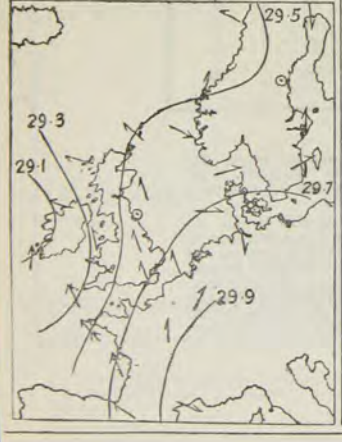
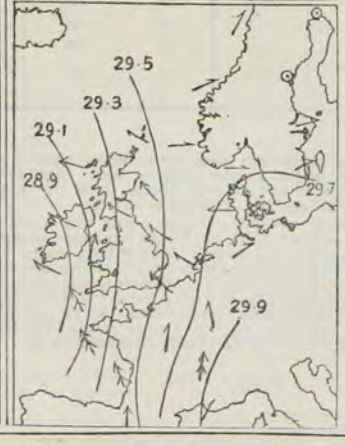
Bright sunshine has been less prevalent than it was last week. The percentages of the possible duration varied from 20 in "England, N.E." and between 22 and 24 over Ireland, to 47 in "England, S." and 52 in "England, E." and the "Channel Islands".

Depressions observed.—During nearly the whole of this period, depressions, some of which have been large, have passed in a north-easterly direction outside our western and northern coasts, while several shallow subsidiary disturbances have moved in a similar direction over our Islands. South-Westerly to Southerly winds have consequently been very prevalent, and although moderate or fresh generally, they reached the force of a gale on almost all our coasts on the 25th. At the end of the period a small depression had appeared over France, causing the wind on our southern coasts to shift to the Northward or North-Eastward.

* This value has been altered a little owing to an error in the reports from Valencia.
† The accumulated values in this district are liable to alteration in consequence of the non-arrival of the Return from Foynes.

E 17319. 350.—4/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, April 21.** *Weather* dull at our western and northern stations, with rain in many places, but fair or fine elsewhere. *Temperature* risen a little in most places; readings ranging from 61° at Yarmouth to 44° at Sumburgh Head. Highest maxima 73° at Cambridge, 72° in London and at Yarmouth, 71° at Loughborough, and 70° at Oxford. *Wind* Easterly in the north of Scandinavia, but South-Westerly elsewhere; strong in force at some of our western stations. *Sea* rough in the south-west and on the Norwegian coast. *Barometer* falling at all but the Swedish and French stations. Pressure highest in the east of France, with a depression near Bodö and a shallow area of low pressure to the north-westward of our Islands. Rise continuing in most places all day.	
		**Wednesday, April 22.** *Weather* dull and rainy at the western and some of the northern stations, but fair or fine elsewhere. Showers falling in the east and south later. *Temperature* fallen in most parts of our Islands, but risen at several of the Continental stations; readings ranging from 60° in London and at Cambridge to 45° at Donaghadee and Parsonstown. Highest maxima 71° at Cambridge and 67° at Spurn Head. *Wind* Northerly in the south of Ireland, but South-Westerly or Southerly elsewhere; strong in force at some of our western stations, but light or moderate in all other localities. Subsequently shifting to West in Ireland. *Sea* rough at the mouths of the English and Bristol Channels; moderate to smooth elsewhere. *Barometer* falling a little in most places. Pressure highest in the south-east of France and lowest off the west of Norway, but small shallow depression lying near mouth of Bristol Channel. Depression moving north-eastwards later and barometer rising in south-west.	
		Thursday, April 23. *Weather* fair in most localities, but with showers locally. *Temperature* risen slightly in the west and north, but fallen elsewhere; readings ranging from 53° in London to 44° at Shields and York, and 43° at Parsonstown. Maxima over England considerably lower than on previous two days. *Wind* North-Westerly on our north and north-west coasts, but South-Westerly in the south and south-east, and variable in the south-west, fresh in force at some of our south-eastern stations, but light or moderate elsewhere. Subsequently shifting to South on our western and northern coasts, and increasing in force. *Sea* moderate to smooth. *Barometer* rising at some of our western and northern stations, but falling elsewhere. Pressure highest in south of France, with shallow depressions over the North Sea and our south-west coasts. Brisk fall taking place in Ireland later.	
		**Friday, April 24.** *Weather* fair at our eastern and most of the Continental stations, but dull and rainy in the western and south-western parts of the Kingdom. Rain falling generally later. *Temperature* changed slightly and irregularly; readings ranging from 51° at Belmullett and Valencia to 43° at Shields. *Wind* Westerly in Denmark and the south of Norway, but South-Easterly or Southerly elsewhere; light or moderate in force on our north and east coasts, but strong to a gale in the west and south-west. *Sea* rough on our west and south-west coasts, but smooth in the north and east. *Barometer* falling at all but the Scandinavian and Danish stations. Pressure highest in the south-east of France, with a rather deep depression to the westward of Ireland, and a shallow disturbance off the west of Norway. New depression approaching our south-west coasts later, and barometer continuing to fall generally.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

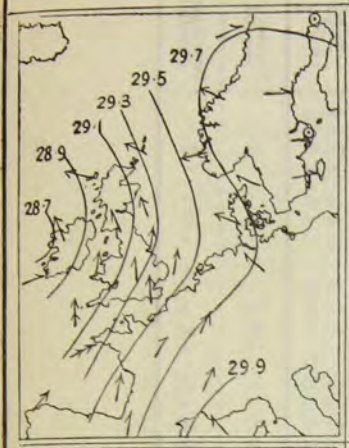
Weather

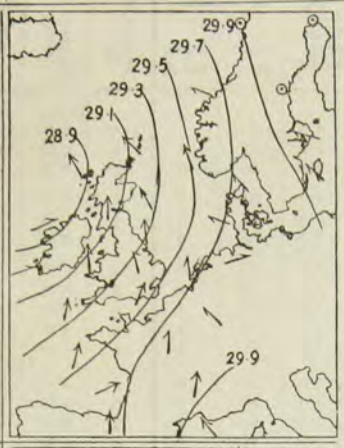
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Saturday, April 25.

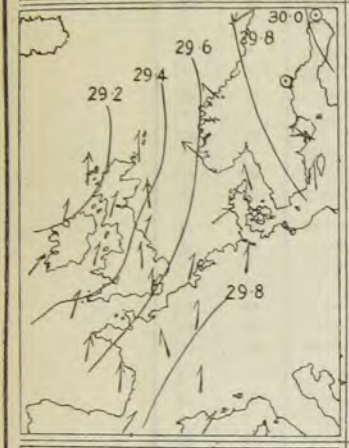
Weather dull and rainy in the north and east of Scotland, but fair in most other localities, with, however, showers in a few places. Sharp squall of wind and rain, with distant thunder occurring in London at 1.45 p.m.

Temperature risen a few degrees generally; readings rangings from 54° in the south-east of England to 45° at Sumburgh Head and Aberdeen. Maxima a little higher than on Thursday and Friday.

Wind South-Easterly in the north but Southerly or South-Westerly in the south; strong in force on many parts of our coasts, with gales in the west and north. Fresh gale occuring later at some of our south-eastern stations, but wind lulling in west.

Sea high at the mouth of the Channel, rough or rather so on all other parts of our coasts.

Barometer rising at our south-western and most of the continental stations, but falling elsewhere. Pressure high over central Europe, with a deep depression to the westward of Ireland. Depression moving northwards later and barometer rising generally.



Sunday, April 26.

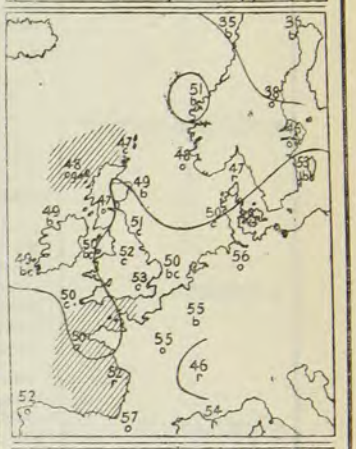
Weather rainy in the southern parts of Norway and France, but fair in our islands, with, however, showers locally. Thunder storm occurring at Liverpool, and thunder heard at Cuxhaven and Helder.

Temperature fallen in France, but changed irregularly elsewhere; readings ranging from 54° at Cambridge to 46° at Roche's Point. Slight ground frost occurring over central England at night.

Wind chiefly Southerly; strong in force over the Channel and north-west of France, but moderate or fresh elsewhere. Strong winds subsiding later.

Sea rather rough in the Channel and also off the north of Scotland, but moderate to smooth elsewhere.

Barometer rising generally. Pressure highest in north of Sweden, but relatively high in south-east of France, with large depression off the west of Scotland and small subsidiary disturbance over the St. George's Channel. Both depressions moving northwards later, but new and decided fall of barometer taking place over France.



Monday, April 27.

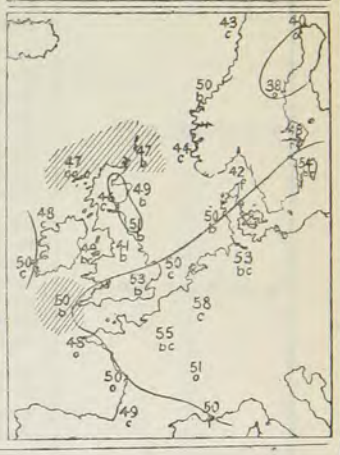
Weather cloudy or overcast at the Swedish and French stations, with rain in some places, but fair or fine elsewhere. Rain falling in west of Ireland later.

Temperature changed little and irregularly; readings ranging from 53° in London to 41° at York, Subsequently rising to 63° at Hurst Castle, 64° at Cambridge, and 66° at Loughborough.

Wind moderate or fresh from South-West or South on our western and northern coasts, but light from North-East or North in the south. Subsequently backing to West in the south of England.

Sea rather rough off the north of Scotland, as well as at Scilly. Moderate to smooth elsewhere.

Barometer rising in our Islands, but falling at many of the Continental stations. Pressure highest in north of Sweden, but relatively high over England and the south of Ireland, with large area of low readings to the north-westward of Scotland, and small shallow depression over France. Brisk fall taking place in west of Ireland in evening.



Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 65 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	52	38	50·3	40·9	45·5	+ 1·8	29	3	4	0·47	−0·04	*	*
	Stornoway	54	34	52·3	41·0	46·4	+ 1·2	35	3	5	0·90	+0·30	36	35
	Wick	55	35	52·9	42·0	47·2	+ 2·6	36	0	3	0·38	0·00	*	*
1. SCOTLAND, E.	Nairn	62	34	59·0	42·9	50·6	+ 4·9	60	0	1	0·02	−0·29	*	*
	Aberdeen	63	38	54·3	42·6	48·3	+ 3·0	44	0	4	1·05	+0·52	33	32
	Leith	61	34	56·4	43·1	49·4	+ 2·3	52	0	4	0·46	+0·06	*	*
2. ENGLAND, N.E.	Alnwick Castle	58	34	54·7	40·0	47·0	+ 1·1	43	6	4	1·15	?	*	*
	Shields	60	40	56·3	44·7	50·2	+ 3·8	57	0	6	0·76	+0·32	*	*
	Scarborough ℔	66	40	59·7	45·9	52·5	+ 5·6	74	0	5	0·39	−0·05	*	*
	York	64	34	60·9	42·3	51·2	+ 3·1	64	0	6	0·40	−0·01	20	20
	Spurn Head	67	44	58·6	46·1	52·1	+ 4·7	71	0	2	0·09	?	*	*
3. ENGLAND, E.	Hillington ℔	72	37	64·8	43·8	53·8	+ 4·8	83	0	3	0·14	−0·30	47	47
	Yarmouth	72	43	59·4	46·3	52·5	+ 3·0	74	0	3	0·56	+0·13	*	*
	Geldeston	72	40	62·9	44·8	53·4	+ 4·5	80	0	3	0·47	+0·12	57	57
	Cambridge	73	38	64·0	43·3	53·2	+ 3·1	78	0	3	0·56	+0·16	51	51
	Rothamsted	71	38	60·3	43·2	51·3	+ 2·8	65	0	4	0·51	−0·02	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	70	32	63·1	40·6	51·3	+ 2·1	71	4	3	0·21	−0·20	*	*
	Loughborough	71	34	62·6	43·3	52·5	+ 3·6	74	0	3	0·16	−0·26	*	*
	Leicester	72	35	62·8	43·6	52·7	+ 5·0	75	0	3	0·15	−0·28	46	46
	Cheadle ℔	68	37	57·5	41·8	49·3	+ 2·3	52	1	3	0·31	?	*	*
	Churchstoke ℔	66	31	57·4	40·4	48·5	− 0·2	52	4	4	1·44	?	35	35
	Hereford ℔	72	32	62·0	42·3	51·7	+ 2·3	68	0	4	1·03	+0·63	*	*
	Cirencester	68	33	58·4	39·7	48·6	+ 0·2	56	6	5	0·79	+0·26	40	40
	Oxford	70	39	60·6	45·3	52·6	+ 3·1	74	0	4	0·24	−0·18	45	45
5. ENGLAND, S.	London†	72	42	63·0	46·3	54·3	+ 3·9	86	0	4	0·26	−0·19	49	49
	Marlborough ℔	69	36	58·6	42·3	50·2	+ 2·6	57	0	5	0·82	+0·27	41	41
	Strathfield Turgiss ℔	71	35	62·2	42·2	51·7	+ 3·0	68	0	5	0·48	+0·06	*	*
	Dungeness	58	36	56·3	47·3	51·6	+ 1·4	67	0	4	0·18	?	*	*
	Hastings (St. Leonard's)	63	45	56·5	47·6	51·8	+ 1·9	69	0	3	0·22	−0·25	48	48
	Southampton	67	40	60·5	45·3	52·5	+ 2·5	74	0	4	0·27	−0·24	49	49
	Hurst Castle	63	40	57·0	45·3	50·9	+ 0·9	62	0	4	0·18	−0·23	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	57	39	53·0	44·6	48·6	+ 1·9	46	0	5	2·18	?	*	*
	Glasgow	57	38	54·5	43·5	48·7	+ 2·2	47	0	5	0·71	+0·15	26	25
	Ardrossan	54	40	49·4	42·9	46·0	− 0·5	28	0	4	1·04	+0·48	*	*
	Silloth (Cumberland)	59	35	53·2	43·2	48·0	− 0·2	42	0	4	1·36	+0·95	31	30
	Douglas (Isle of Man)	54	41	51·3	43·9	47·4	− 0·8	38	0	7	2·04	+1·61	26	25
7. ENGLAND, N.W.	Newton Reigny (Penrith)	56	32	53·6	41·6	47·3	+ 0·8	39	1	5	1·94	?	23	23
	Barrow-in-Furness	55	39	52·1	43·4	47·5	− 1·2	39	0	5	1·22	?	*	*
	Stonyhurst	60	34	55·0	42·2	48·3	+ 0·4	44	0	6	0·99	+0·44	31	30
	Blackpool ℔	58	34	53·8	42·2	47·8	− 1·4	41	0	6	0·55	+0·21	27	26
	Manchester	61	34	56·3	42·9	49·3	+ 1·4	51	0	5	0·50	+0·05	*	*
	Liverpool Obsr (Bidston)	59	40	56·7	44·9	50·5	+ 2·0	60	0	6	0·55	+0·22	*	*
	Llandudno ℔	58	40	56·3	44·4	50·1	+ 0·3	57	0	5	0·27	−0·13	35	35
	Holyhead	55	43	52·7	45·6	49·0	− 0·8	49	0	5	0·99	+0·59	*	*
8. ENGLAND, S.W.	Llandovery	63	33	57·6	40·4	48·6	− 1·3	53	4	5	1·17	?	*	*
	Pembroke	52	44	50·3	45·7	47·9	− 1·8	41	0	7	0·99	+0·52	43	43
	Arlington (N. Devon)	66	35	55·1	41·7	48·1	− 0·7	44	1	5	1·09	?	*	*
	Cullompton ℔	68	33	58·3	41·7	49·6	− 0·2	54	1	5	1·46	?	36	36
	Falmouth	59	42	54·7	45·8	50·0	+ 0·3	56	0	5	1·53	+0·78	46	46
	Plymouth	61	36	56·4	45·0	50·4	− 0·3	59	0	4	1·12	+0·55	40	40
	Prawle Point	60	40	54·0	44·3	48·9	− 0·8	48	0	4	0·32	?	*	*
9. IRELAND, N.	Malin Head	56	42	53·9	43·4	48·4	+ 1·0	45	0	7	0·44	?	*	*
	Londonderry	60	41	57·7	43·6	50·3	+ 2·4	58	0	7	0·84	+0·26	*	*
	Mullaghmore	56	43	54·1	45·6	49·5	+ 0·8	53	0	6	1·02	?	*	*
	Belmullet	57	43	53·6	45·6	49·2	+ 0·4	50	0	7	1·14	?	*	*
	Markree Castle	58	37	54·9	42·1	48·2	− 0·4	43	0	6	0·86	+0·33	26	25
	Brookeborough	57	35	54·9	41·7	48·0	− 0·4	43	1	6	1·40	?	*	*
	Armagh	57	36	54·6	42·4	48·2	+ 0·2	43	0	7	1·57	+1·07	18	18
	Donaghadee	58	40	53·0	44·0	48·3	− 0·2	44	0	5	1·82	+1·35	*	*
	Edgeworthstown	58	33	55·4	42·1	48·4	− 0·6	45	0	6	1·68	?	*	*
10. IRELAND, S.	Dublin	59	40	55·3	44·3	49·5	+ 0·3	53	0	6	2·16	+1·66	21	21
	Parsonstown	58	34	55·1	42·3	48·4	− 0·6	45	0	7	1·77	+1·27	19	19
	Kilkenny	58	34	53·2	42·1	47·3	− 1·7	37	0	7	3·06	?	*	*
	Waterford	58	37	53·2	43·2	48·0	− 1·6	42	0	7	3·35	+2·72	*	*
	Roche's Point	55	40	53·3	45·0	49·0	− 0·7	49	0	7	1·34	+0·54	*	*
	Valencia	55	43	53·6	45·3	49·3	− 0·6	51	0	7	1·78	+0·93	31	31
	Killarney	56	40	54·7	43·8	49·0	− 0·6	49	0	6	2·07	?	*	*
	Foynes											?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	59	44	55·0	45·4	50·0	− 0·5	56	0	6	1·42	+0·89	*	*
	Jersey (Noirmont)	66	45	57·3	46·4	51·6	+ 1·4	67	0	5	0·13	−0·33	51	52

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 18.] *New Series.* WEEK ENDING MONDAY, 4TH MAY, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

DISTRICTS (See p. 72.)	Temperature of the Air.									
	Observed during the Week.					Above or below the Mean for the Week	Accumulated.			
			Averages of				Above 42°		Below 42°	
	Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.		For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
	°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.										
0. SCOTLAND, NORTH	59	33	50·1	41·2	45·4	0 (average).	27	179	2	477
1. SCOTLAND, EAST	62	35	51·8	41·6	46·4	0 (average).	32	272	1	522
2. ENGLAND, N.E.	65	35	52·9	42·4	47·3	0 (average.)	37	274	0	431
3. ENGLAND, EAST	67	33	57·1	41·8	49·0	1 below.	50	383	1	521
4. MIDLAND COUNTIES	67	33	57·4	40·0	48·2	2 below.	52	374	6	521
5. ENGLAND, SOUTH	66	34	57·6	41·7	49·2	1 below.	52	443	1	388
Principal Grazing, &c. Districts.										
6. SCOTLAND, WEST	59	35	52·4	42·7	47·3	1 below.	37	268	0	413
7. ENGLAND, N.W.	61	36	54·3	42·0	47·7	2 below.	40	285	0	403
8. ENGLAND, S.W.	61	33	53·6	40·9	46·9	4 below.	39	405	3	315
9. IRELAND, NORTH	60	31	53·8	41·7	47·4	2 below.	39	369	1	378
10. IRELAND, SOUTH	58	34	54·6	41·9	47·8	2 below.	41	408	0	306
— CHANNEL ISLANDS	58	43	54·3	45·0	49·4	2 below.	52	484	0	106

DISTRICTS. (See p. 72.)	Rainfall.					Bright Sunshine.			
	For the Week.			Since Dec. 30/84.		Hours recorded.		Percentage of the possible Duration.	
	Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Number of Rainy Days.	Total Fall.	For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
		10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.									
0. SCOTLAND, NORTH	3	3	2 less.	79	11·1	36	366	33	27
1. SCOTLAND, EAST	5	7	3 more.	60	7·5	22	378	20	28
2. ENGLAND, N.E.	5	9	5 more.	64	7·1	25	200	24	15
3. ENGLAND, EAST	4	7	2 more.	63	7·4	36	416	35	30
4. MIDLAND COUNTIES	5	4	1 less.	69	8·3	30	340	29	25
5. ENGLAND, SOUTH	4	5	1 more.	61	9·1	40	385	39	28
Principal Grazing, &c. Districts.									
6. SCOTLAND, WEST	4	6	2 more.	72	15·3	28	358	26	26
7. ENGLAND, N.W.	5	4	1 less.	72	10·2	29	304	27	22
8. ENGLAND, S.W.	6	8	2 more.	73	12·4	40	413	38	30
9. IRELAND, NORTH	5	6	1 more.	76	11·8	31	361	29	26
10. IRELAND, SOUTH	6	7	0 (average).	77 *	16·1 *	42	429 *	40	31
— CHANNEL ISLANDS	6	11	6 more.	85	11·3	55	521	54	37

General Remarks.

Weather has been cloudy or dull generally, with, however, some bright intervals. Considerable falls of rain have occurred locally, while during the latter part of the period, thunderstorms, accompanied in some places by hail, were experienced in nearly all parts of the Kingdom.

Temperature has been about equal to the mean in the north-east and north of Great Britain, but 1° or 2° below it in all other districts excepting "England, S.W.", where the deficit has been as much as 4°. The maxima, which were registered on April 28th or 29th, varied from 67° in "England, E." and the "Midland Counties", to 58° in the "Channel Islands". The minima, which were recorded on different days in the various localities, ranged from 31° in "Ireland, N." to 36° in "England, N.W." and to 43° in the "Channel Islands".

Rainfall has been rather less than the mean in "Scotland, N.", the "Midland Counties", and "England, N.W.", and about equal to it in "Ireland, S.", but more in all other districts.

Bright sunshine shows a decrease in most places, the percentages of the possible duration varying from between 20 and 35 in most parts of the country, to 40 in "Ireland, S." and 54 in the "Channel Islands".

Depressions observed.—During the whole of this period barometric pressure was highest over Scandinavia, while during the earlier part of the time an area of relatively high readings existed over France or the Bay of Biscay. Under these conditions some rather large depressions moved northwards outside our extreme western coasts, and some subsidiary disturbances advanced over our Islands, the wind being moderate to strong from the Southward. Towards the end of the week, however, the relatively high pressure over France gave way, and a large area of low readings, having two minima, was formed over nearly the whole of England, the north of France, North Germany, and Denmark. With this change the Southerly winds disappeared and light to moderate Easterly breezes set in on all our coasts.

* These values have been altered slightly owing to the receipt of some arrears of observations.

E 17413. 350.—5/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

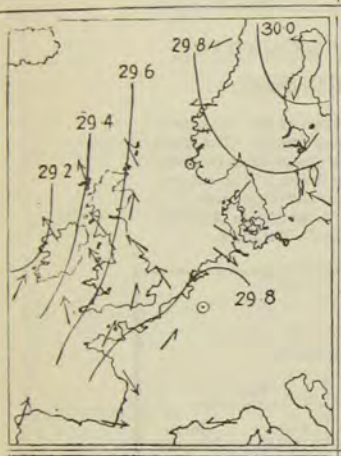
Weather

During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.



Tuesday, April 28.

Weather fine at our eastern, southern, and central stations as well as in France, but cloudy elsewhere, with rain on our south-west coasts and also on the eastern shores of the North Sea. Rain falling later at all but the north stations.

Temperature changed little and irregularly; readings ranging from 56° in London to 46° at Shields and Malin Head.

Wind Easterly in Scandinavia, North-Westerly in Denmark, and South-Westerly in France, but Southerly or South-Easterly in our Islands; strong to a gale in force on our west and south-west coasts, but light or moderate elsewhere.

Sea rough in the west, south-west, and extreme north.

Barometer rising at many of the Continental stations, but falling in our Islands—quickly on our western coasts. Pressure highest in the north of Sweden, with shallow depression over Denmark and rather deep disturbance to the westward of our Islands. Shallow subsidiary depressions advancing over England later.

Wednesday, April 29.

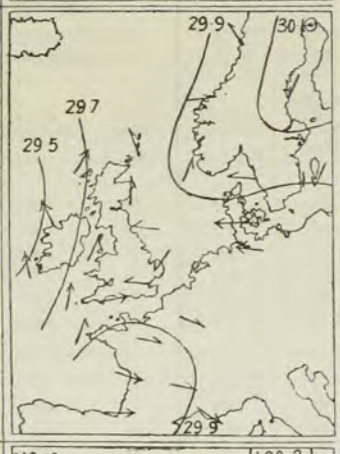
Weather fair in most places, but dull locally. Slight showers falling later in many parts of the Kingdom.

Temperature fallen in Sweden and the south-east of England, but changed irregularly elsewhere; readings ranging from 54° at Cambridge to 45° at Wick and Aberdeen. Maxima over England several degrees lower than of late.

Wind Easterly or North-Easterly in Scandinavia and Denmark and South-Easterly or Southerly on our north and east coasts, but South-Westerly or Westerly in the west and south; light to fresh in force generally.

Sea rough on our south-west coasts; rather rough at Sumburgh Head; moderate to smooth elsewhere.

Barometer rising in most places. Pressure still highest in north of Sweden, with a depression over the Baltic, a shallow disturbance to the north-westward of our Islands, and a subsidiary system over the north of England. Rise continuing all day.



Thursday, April 30.

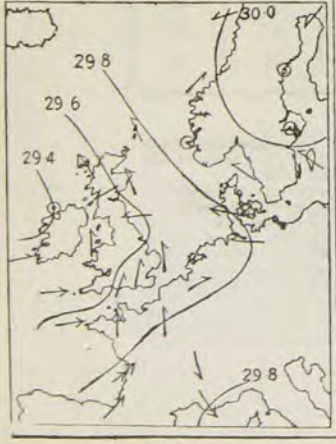
Weather fair generally, but overcast over the south of Scandinavia and rainy at Yarmouth. Rain setting in over Ireland later.

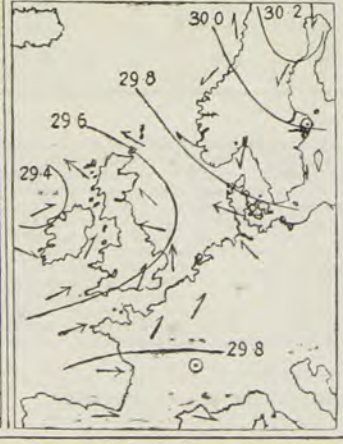
Temperature fallen a little in most places; readings ranging from 52° at Wick, Nairn, and Leith, to 46° at Barrow-in-Furness, and 45° at Sumburgh Head.

Wind Easterly or North-Easterly in Scandinavia and Denmark, North-Westerly at most of the English and French stations, and South-Westerly or Southerly in Ireland, light or moderate in force on nearly all coasts. Subsequently backing to South-West in the west and south of England, and increasing to fresh gale in the south of Ireland.

Sea rather rough in the extreme west and south-west.

Barometer rising generally. Pressure still highest in north of Sweden, but relatively high over Bay of Biscay, with shallow areas of low readings to the westward of our Islands and over the Netherlands. Rather deep depression appearing off west of Ireland later.





Friday, May 1.

Weather fine on our south-west coasts, but cloudy or overcast elsewhere, with rain at many places and snow at Hernösand. Some improvement taking place at our southern stations later.

Temperature fallen a little generally; readings ranging from 52° in London to 44° at Aberdeen. Slight ground frost over central England at night.

Wind South-Easterly on our north and east coasts, but Westerly or South-Westerly in the west and south; light to fresh in force generally.

Sea rather rough on our south-west coasts, moderate to smooth elsewhere.

Barometer falling generally. Pressure highest north of Sweden, and relatively high south of France, with depression over the west of Ireland, and subsidiary disturbances over England. Slight rise taking place on our south-west coasts later.

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

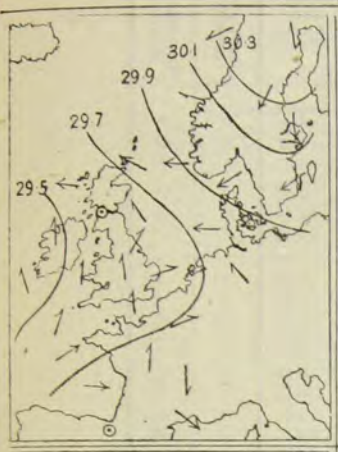
Weather

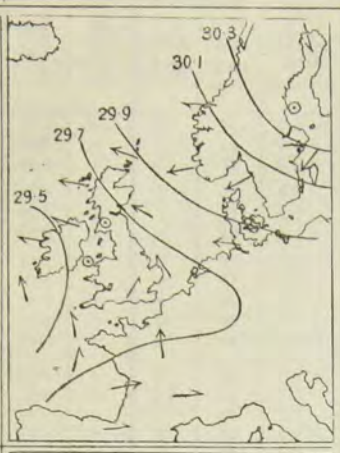
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Saturday, May 2.

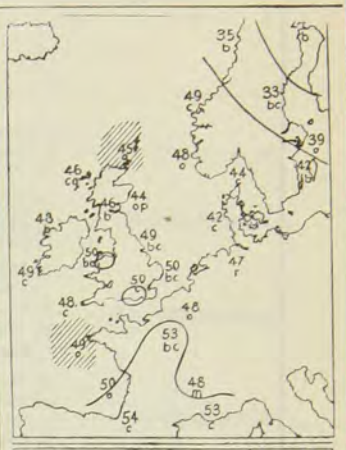
Weather fair in most places, but rain falling at Cuxhaven, Helder, and Lorient. Showers falling later in many parts of the kingdom.

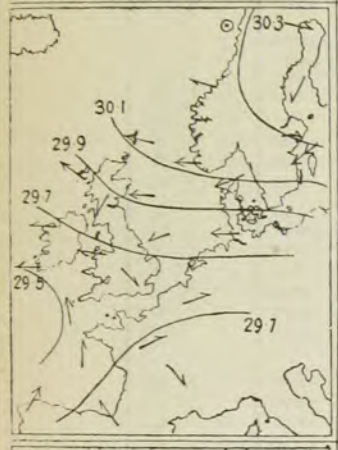
Temperature changed little and irregularly; readings ranging from 50° at several of the English stations to 44° at Aberdeen.

Wind North-Easterly in Sweden and Easterly or South-Easterly in Norway, Denmark, and Scotland, but South-Westerly or Westerly in France and the south of our Islands; light or moderate in force at all but the Scandinavian stations.

Sea rough at Sumburgh Head and Brest, moderate to smooth elsewhere.

Barometer rising a little in most localities, but falling in the west of France and south-west of our Islands. Pressure still highest in the north of Sweden, with large area of low readings to the westward of our Islands and shallow subsidiary depression over England. No important change later.





Sunday, May 3.

Weather dull and rainy on our north-east coasts, but fair or fine elsewhere. Thunder heard later in various parts of the kingdom, with showers in many places.

Temperature fallen a little; readings ranging from 53° at Scilly and Hurst Castle to 43° at Aberdeen and Shields.

Wind South-Westerly in France and variable in the south-east of England, but South-Easterly or Easterly elsewhere; strong in force on the eastern shores of the North Sea and also in Scotland, but light to fresh in all other localities.

Sea high at Aberdeen and rather rough on our north and north-east coasts generally as well as at Scilly.

Barometer falling a little in the Netherlands and west of Faance, but rising elsewhere, most at our northern stations. Pressure highest in Sweden and lowest to the south-westward of our Islands, but band or trough of relatively low readings extending across the south of England to the Netherlands.

Monday, May 4.

Weather fine in the south of Scandinavia, and north of Scotland, and fair at most of the Channel stations, but cloudy elsewhere, with rain in many places.

Temperature fallen a few degrees generally; readings ranging from 50° at Valencia, Scilly, and Dungeness, to 40° at Nairn.

Wind Westerly or South-Westerly at most of the French stations, but Easterly or North-Easterly elsewhere; fresh in force on our northern coasts, but light or moderate in the south.

Sea rough on our north-east coasts, rather rough at Malin Head, moderate to smooth elsewhere.

Barometer falling at all but our extreme western stations. Highest pressures now lying to the northward of Scotland, with large but shallow area of low readings over England, the Netherlands, and the north of France. No important change later.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ——— = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 69 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	51	33	47·4	39·7	43·3	− 1·4	19	6	4	0·42	−0·03	*	*
	Stornoway	59	35	52·9	41·9	47·1	+ 1·3	36	0	2	0·23	−0·37	36	33
	Wick	55	40	50·1	41·9	45·8	+ 0·3	27	0	4	0·30	−0·07	*	*
1. SCOTLAND, E.	Nairn	62	39	54·4	42·4	48·0	+ 1·8	42	0	4	0·31	−0·02	*	*
	Aberdeen	57	35	49·0	40·1	44·3	− 1·9	24	5	6	0·86	+0·36	22	20
	Leith	58	36	52·0	42·4	46·9	− 1·1	34	0	5	0 88	+0·49	*	*
2. ENGLAND, N.E.	Alnwick Castle	55	35	49·7	40·3	44·7	− 1·9	26	5	6	1·54	?	*	*
	Shields	62	40	51·6	41·9	46·5	− 0·8	32	0	6	0·59	+0·17	*	*
	Scarborough ℔	60	40	52·8	43·2	47·7	− 0·1	40	0	5	1·27	+0·82	*	*
	York	65	39	58·1	42·1	49·6	+ 1·6	53	0	5	0·86	+0·46	25	24
	Spurn Head	59	42	52·4	44·3	48·1	+ 0·1	43	0	4	0·31	?	*	*
3. ENGLAND, E.	Hillington ℔	67	37	60·3	42·2	50·7	+ 0·8	61	0	3	0·30	−0 13	34	32
	Yarmouth	55	43	52·3	44·4	48·1	− 2·5	43	0	6	0·37	−0·06	*	*
	Geldeston	61	33	56·8	41·8	48·9	− 1·5	49	1	5	0·42	+0·04	41	39
	Cambridge	63	34	59·3	41·1	49·7	− 1·4	58	3	3	0·90	+0·50	34	33
	Rothamsted	63	34	57·0	39·6	47·8	− 1·4	51	7	5	1·26	+0·76	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	67	36	59·1	41·3	49·7	− 0·3	57	2	5	0·68	+0·25	*	*
	Loughborough	66	37	59·1	41·7	49·9	0·0	57	1	3	0·13	−0·30	*	*
	Leicester	65	39	59·1	42·9	50·5	+ 0·7	60	0	5	0·20	−0·25	27	26
	Cheadle ℔	61	36	55·5	40·2	47·4	− 0·8	45	5	6	0·36	?	*	*
	Churchstoke ℔	59	34	54·4	36·9	45·1	− 4·3	43	14	6	0·72	?	30	29
	Hereford ℔	65	35	58·6	38·6	48·0	− 2·3	56	10	5	0·47	+0·06	*	*
	Cirencester	60	33	55·9	37·0	45·9	− 3·6	48	14	6	0·46	−0·06	28	27
	Oxford	63	38	57·6	41·1	48·9	− 1·4	52	3	4	0·19	−0·24	36	35
5. ENGLAND, S.	London†	65	37	60·0	42·4	50·7	− 0·5	61	0	4	0·62	+0·19	30	29
	Marlborough ℔	61	34	56·6	39·1	47·3	− 1·1	49	8	6	0·66	+0·14	32	31
	Strathfield Turgiss ℔	65	35	61·4	35·7	48·1	− 1·4	69	18	5	0·52	+0·12	*	*
	Dungeness	57	38	55·1	45·6	50·1	− 0·8	57	0	3	0·77	?	*	*
	Hastings (St. Leonard's)	59	43	54·7	44·3	49·2	− 1·5	50	0	3	0·95	+0·50	48	46
	Southampton	66	38	59·8	41·4	50·1	− 0·5	59	2	4	0·19	−0·30	51	49
	Hurst Castle	60	39	55·6	43·1	49·0	− 2·0	49	0	1	0·06	−0·34	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	56	40	52·9	44·2	48·3	+ 0·9	44	0	4	0·46	?	*	*
	Glasgow	59	38	53·4	42·4	47·6	+ 0·4	39	0	5	1·19	+0·57	16	15
	Ardrossan	55	39	51·1	42·3	46·4	− 0·8	31	0	3	0·37	−0·16	*	*
	Silloth (Cumberland)	58	35	53·5	41·8	47·2	− 2·0	37	1	3	0·62	+0·22	24	22
	Douglas (Isle of Man)	54	40	51·3	43·0	46·9	− 1·1	34	0	4	0·64	+0·21	44	42
7. ENGLAND, N.W.	Newton Reigny (Penrith)	59	36	52·4	39·3	45·5	− 1·8	36	8	6	0·53	?	22	21
	Barrow-in-Furness	58	41	53·9	43·6	48·4	− 1·2	45	0	4	0·33	?	*	*
	Stonyhurst	60	38	55·8	41·3	48·1	− 0·7	46	2	4	0·31	−0·24	28	26
	Blackpool ℔	59	37	54·2	40·1	46·7	− 3·2	41	5	5	0·43	+0·06	28	26
	Manchester	61	40	55·1	42·3	48·3	− 1·0	44	0	4	0·21	−0·24	*	*
	Liverpool Obsy (Bidston)	59	39	55·1	42·7	48·5	− 1·3	46	0	5	0·42	+0·07	*	*
	Llandudno ℔	58	40	54·6	42·4	48·1	− 2·2	43	0	3	0·25	−0·15	38	36
	Holyhead	56	42	52·9	43·9	48·1	− 2·5	43	0	5	0·37	−0·03	*	*
8. ENGLAND, S.W.	Llandovery	61	35	55·7	39·6	47·2	− 3·5	46	7	7	0·75	?	*	*
	Pembroke	54	44	50·4	45·0	47·5	− 2·8	39	0	4	0·59	+0·13	54	52
	Arlington (N. Devon)	56	38	53·0	39·6	45·9	− 3·6	37	7	5	0·84	?	*	*
	Cullompton ℔	59	33	55·7	37·0	45·8	− 4·9	48	14	6	0·55	?	29	28
	Falmouth	—	—	—	—	—	—	—	—	7	1·01	+0·30	41	40
	Plymouth	56	39	54·7	42·1	48·0	− 3·5	42	0	7	1·49	+0·96	34	33
	Prawle Point	54	40	52·1	42·1	46·8	− 3·6	34	0	6	0·42	?	*	*
9. IRELAND, N.	Malin Head	56	39	54·0	42·4	47·9	− 0·3	41	0	4	0·29	?	*	*
	Londonderry	60	38	56·0	41·6	48·4	− 0·2	46	1	6	0·59	+0·04	*	*
	Mullaghmore	57	40	53·7	45·3	49·3	− 0·4	51	0	7	0·41	?	*	*
	Belmullet	55	41	51 9	44·1	47·8	− 1·6	40	0	7	0·80	?	*	*
	Markree Castle	57	31	54·3	39·0	46·2	− 3·3	42	8	7	0·64	+0·16	39	37
	Brookeborough	57	34	54·3	40·1	46·8	− 2·6	42	5	3	0·78	?	*	*
	Armagh	56	36	53·3	40·2	46·4	− 2·6	38	5	7	0·48	+0·03	22	21
	Donaghadee	55	39	51·1	43·0	46·8	− 2·4	34	0	4	0·58	+0·11	*	*
	Edgeworthstown	58	35	55·7	39·4	47·1	− 3·2	47	7	3	0·60	?	*	*
10. IRELAND, S.	Dublin	58	42	55·7	44·0	49·5	− 0·4	53	0	7	0·64	+0·18	39	37
	Parsonstown	58	37	55·3	41·0	47·7	− 2·0	44	3	6	0·57	+0·07	50	48
	Kilkenny	57	35	54·1	40·6	47·0	− 2·9	41	4	4	0·43	?	*	*
	Waterford	57	34	55·4	40·6	47·6	− 2·9	45	4	5	0·73	+0·13	*	*
	Roche's Point	56	38	54·4	42·7	48·2	− 2·3	43	0	7	0·66	−0 13	*	*
	Valencia	54	42	53·6	43·3	48·1	− 2·3	43	0	7	1·26	+0·48	37	36
	Killarney	53	35	55·8	40·5	46·8	− 3·6	40	4	7	0·76	?	*	*
	Foynes	57	41	54·1	42·1	47·7	− 1·9	40	0	5	0·23	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	43	54·6	45·3	49·7	− 1·5	54	0	6	0·73	+0·23	*	*
	Jersey (Noirmont)	58	43	54·0	44·6	49·0	− 2·2	43	0	5	1·39	+0·94	55	54

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Note.—The return from Falmouth is incomplete, owing to the removal of the instruments to the new Observatory.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 19.] *New Series.* WEEK ENDING MONDAY, 11TH MAY, 1885. [*Price* 4*d.* [*Annual subscription, post paid,* £1 1*s.* 2*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861–80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866–80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 76.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	29	45·5	33·2	39·0	7 below.	10	189	31	508
	1. SCOTLAND, EAST	55	31	48·7	34·8	41·3	6 below.	19	291	27	549
	2. ENGLAND, N.E.	55	30	48·5	36·6	42·3	6 below.	25	299	15	446
	3. ENGLAND, EAST	58	29	52·1	36·3	43·7	7 below.	36	419	16	537
	4. MIDLAND COUNTIES	61	28	51·9	35·7	43·3	7 below.	36	410	18	539
	5. ENGLAND, SOUTH	60	30	54·0	39·5	46·3	5 below.	41	484	7	395
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	57	30	49·7	35·0	41·9	7 below.	22	290	27	440
	7. ENGLAND, N.W.	54	28	49·3	37·1	42·8	7 below.	26	311	14	417
	8. ENGLAND, S.W.	60	27	52·4	38·3	44·9	7 below.	36	441	10	325
	9. IRELAND, NORTH	55	28	49·7	36·0	42·4	8 below.	28	397	17	395
	10. IRELAND, SOUTH	57	28	51·7	36·0	43·4	8 below.	35	503	17	323
	— CHANNEL ISLANDS	55	39	52·3	43·7	47·7	5 below.	40	524	0	106

	DISTRICTS. (See p. 76.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	6	2 more.	86	11·7	47	413	42	28
	1. SCOTLAND, EAST	6	7	3 more.	66	8·2	48	426	44	29
	2. ENGLAND, N.E.	5	5	0 (average).	69	7·6	48	248	44	17
	3. ENGLAND, EAST	5	7	2 more.	68	8·1	47	463	44	31
	4. MIDLAND COUNTIES	4	3	1 less.	73	8·6	46	386	43	26
	5. ENGLAND, SOUTH	5	6	2 more.	66	9·7	43	428	41	29
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	5	0 (average).	77	15·8	48	406	45	28
	7. ENGLAND, N.W.	4	4	0 (average).	76	10·6	50	354	46	24
	8. ENGLAND, S.W.	5	6	0 (average).	78	13·0	56	469	54	31
	9. IRELAND, NORTH	5	5	0 (average).	81	12·3	54	415	50	28
	10. IRELAND, SOUTH	4	3	3 less.	81	16·4	60	486 *	56	33
	— CHANNEL ISLANDS	3	1	4 less.	88	11·4	75	596	72	39

General Remarks.

Weather has varied considerably. At times it was very fine and bright and at other times cloudy or dull, with frequent showers of cold rain, hail, or sleet, and in many parts of the Kingdom thunder and lightning. In the north of Scotland some rather heavy falls of snow occurred.

Temperature has been unusually low for the season, the deficit being 5° in "England, S." and the "Channel Islands" and as much as 6°, 7°, or 8° in all other districts. The maxima, which were registered on different days in the various localities, varied from 61° in the "Midland Counties" and between 55° and 60° in most other districts, to 49° in "Scotland, N." The minima were generally recorded on the 7th or 8th, when the thermometer fell to between 27° and 31° in all districts except the "Channel Islands", where the lowest reading was 39°. Several sharp frosts occurred on the grass, the lowest minimum reported being 23°, which was recorded at Oxford and in London during the early morning of the 8th.

Rainfall has about equalled its mean value in the western and north-eastern parts of Great Britain and in "Ireland, N.", and has been less in the "Midland Counties", "Ireland, S.", and the "Channel Islands" but rather more in the remaining districts.

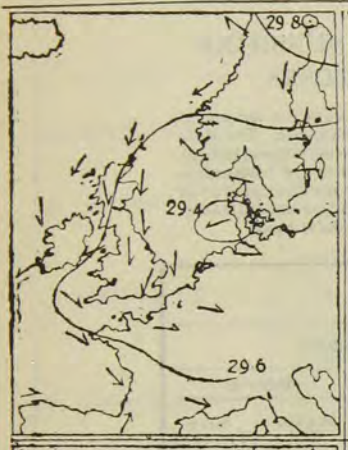
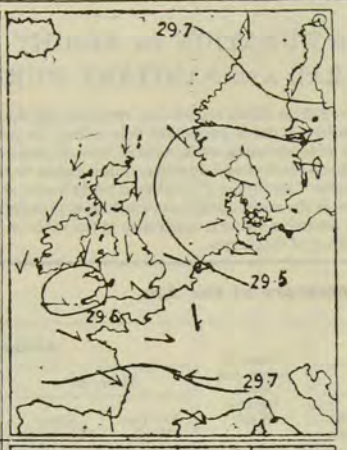
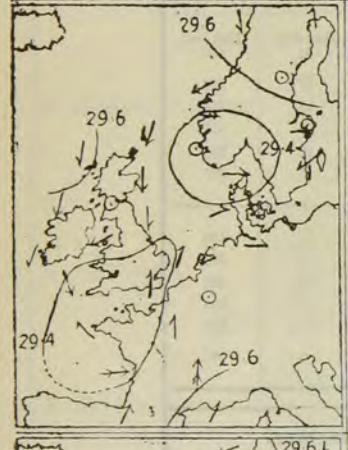
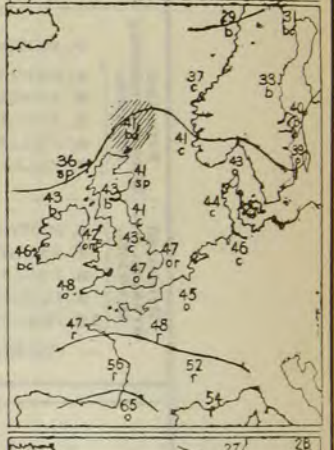
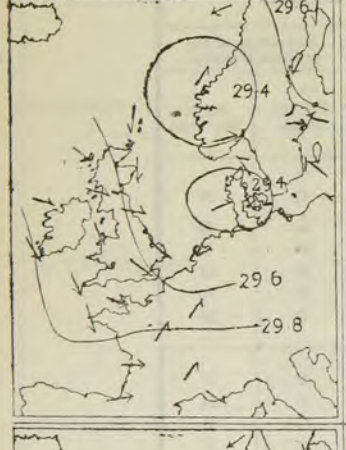
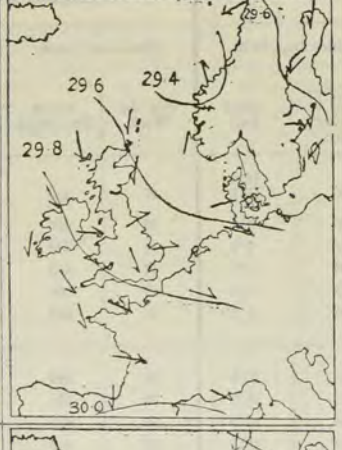
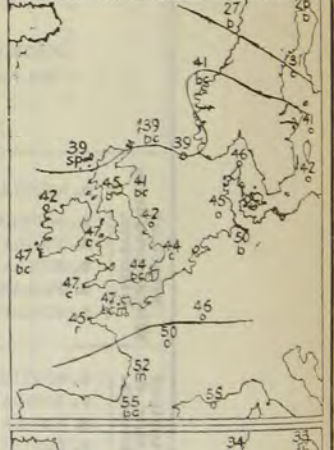
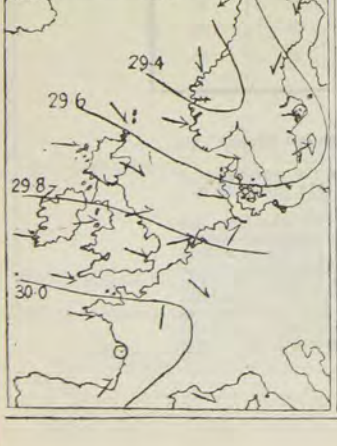
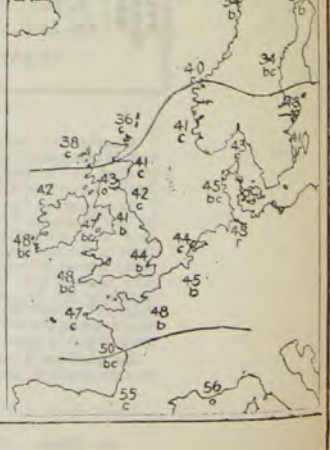
Bright sunshine shows an increase in all districts, the percentages of possible duration varying from 41 in "England, S." and 42 in "Scotland, N.", to 56 in "Ireland, S." and to 72 in the "Channel Islands".

Depressions observed.—At the commencement of the time large but shallow areas of low pressure were moving in an east-north-easterly direction over our southern and south-eastern districts, and the prevailing winds were North-Easterly. By the 7th, these had all passed away to the eastern shores of the North Sea, and the winds had backed to North or North-West. On the evenings of the 8th and 9th, two well defined disturbances crossed Scotland, and the wind for a time drew into West. As these travelled away eastwards, however, a return to North-west and North took place, strong breezes being experienced on the more exposed parts of our coasts.

* This value has been altered somewhat owing to an error in the return from Parsonstown.

E 17510. 350.—5/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, May 5.** *Weather* cloudy, cold, and unsettled; snow and hail in the north, and cold rain at times elsewhere. *Temperature* low generally; maxima over Scotland ranging from 44° to 50°, those over England, 48° to 54°. *Wind* chiefly North-Easterly in our Islands and North-Westerly to Westerly over France and the Channel; strong at our northern stations, light or moderate elsewhere. Subsequently backing to West-South-West in the Channel and veering to South-East over our midland counties. *Sea* rough in far north. *Barometer* falling generally. Depression over North Sea, and new (shallow) one forming over the south-west of England later on.	
		**Wednesday, May 6.** *Weather* fair in Ireland, very little changed elsewhere—cold, cloudy, and showery generally; snow and hail still falling in the north. Warm rains over France. *Temperature* continuing low everywhere; maxima over England 49° to 54°. *Wind* Northerly to North-Easterly on all our coasts, moderate to fresh in force; strong to a gale from West and South-West in France. *Sea* still rough in far north, and moderate over the Bay of Biscay. *Barometer* still falling briskly and irregularly. Two depressions still found in our neighbourhood, one over the south of Norway, the other over the south of England and west of France; the latter moving north-eastwards and the former north-westwards. Barometer beginning to rise later.	
		**Thursday, May 7.** *Weather* inclined to improve slightly, but cold showers of sleet and hail still experienced over the northern parts of the Kingdom, and extending southwards over the greater part of England; cold rain showers elsewhere. *Temperature* fallen in the south, and becoming very low generally towards night. *Wind* North-Westerly, moderate to light. Very variable to the eastward of the North Sea. *Sea* moderate to smooth. *Barometer* rising generally. Moderate gradients for north-westerly winds prevailing in all parts of our Islands. Yesterday's depressions dispersing to the eastward of the North Sea.	
		**Friday, May 8.** *Weather* fairer than of late, but cold showers of sleet, hail, and rain still prevailing at times in most places during the day. *Temperature* very low at first; hard frost on the grass at inland stations during early morning, but thermometer rising considerably later on. Maxima over England 49° to 55°. *Wind* moderate North-Westerly and Westerly at first; afterwards backing to South-West in the west, and to East at our extreme northern stations. *Sea* moderate to smooth. *Barometer* still rising in most places, but falling in north-west subsequently. Pressure highest over the Bay of Biscay, lowest over Norway; new depression approaching our north-west coasts later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

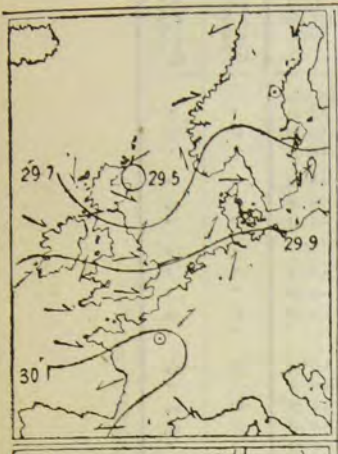
Weather

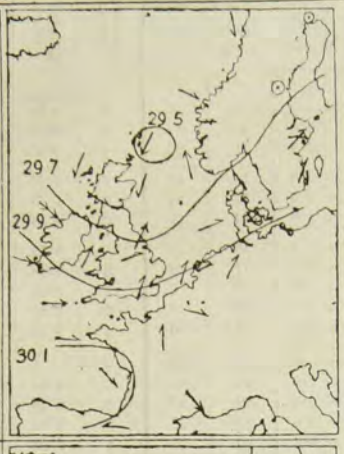
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Saturday, May 9.

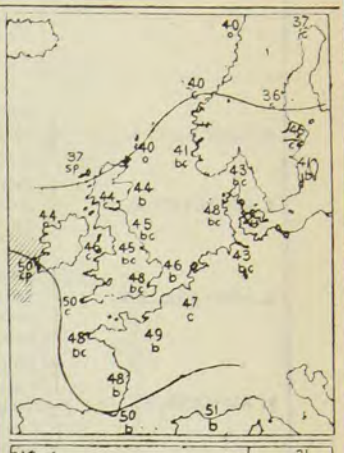
Weather varying frequently; occasional cold showers of hail and rain, separated by bright dry intervals, in most places.

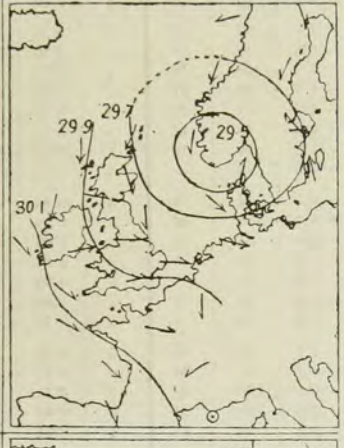
Temperature scarcely so low as of late; maxima over England 50° to 58°, and night less sharp than on 7th and 8th.

Wind North-Easterly at our extreme northern stations, Westerly elsewhere; moderate to fresh in force. Afterwards veering to North-West in Ireland and blowing hard in places.

Sea rough in the far west.

Barometer unsteady. Depression near Wick moving east-north-eastwards, and a new minimum being developed over Scotland later on.





Sunday, May 10.

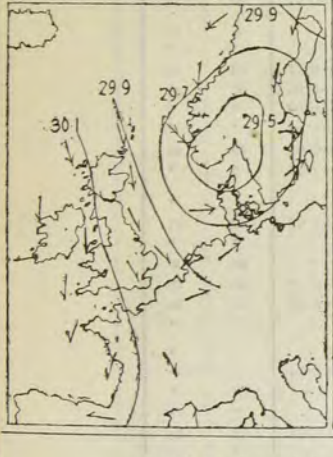
Weather cold and changeable. Occasional showers of hail and cold rain still prevailing, with bright dry intervals. Thunder in Scotland.

Temperature fallen again; maxima 50° to 56°. Night very sharp over our inland counties.

Wind fresh Northerly (North-East to North-West) in Scotland, North-Westerly over Ireland and England, but Southerly and South-Easterly on the eastern shores of the North Sea. Northerly wind subsequently becoming strong in Ireland, while in Denmark the wind veered to West.

Sea rough in west and north-west.

Barometer rising. Readings highest over the Bay of Biscay; lowest in north-east. Complex depression between Scotland and the south-west of Norway, moving eastwards.



Monday, May 11.

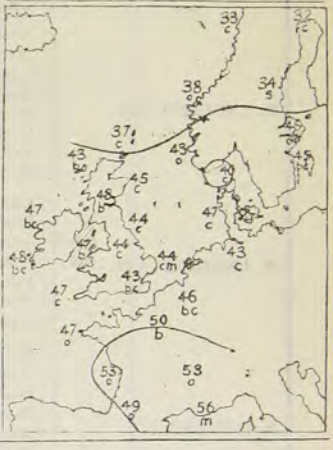
Weather less showery and cloudy than of late, except at our north-eastern stations, where slight hail and rain showers again fell. Air dry and cold.

Temperature risen in Scotland, fallen elsewhere; daily maxima ranging from 50° to 55° over our inland counties.

Wind Northerly and North-Westerly, fresh to strong, almost a gale at some north-eastern stations; but light to moderate in Ireland.

Sea rather rough in the north-west and north, moderate or slight elsewhere.

Barometer rising briskly; depression of yesterday passing off, and an anticyclone advancing over Ireland from the westward.



Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 73 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	48	31	44·7	32·9	38·5	− 6·9	8	32	7	0·52	+0·14	*	*
	Stornoway	48	29	45·7	32·9	38·9	− 7·6	10	32	7	0·94	+0·34	47	42
	Wick	49	30	46·1	33·7	39·5	− 6·5	11	29	6	0·36	+0·01	*	*
1. SCOTLAND, E.	Nairn	48	31	46·7	34·1	40·0	− 7·0	13	28	7	0·47	+0·13	*	*
	Aberdeen	54	32	48·0	34·1	40·6	− 6·5	17	29	6	1·33	+0·88	48	44
	Leith	55	34	51·4	36·1	43·3	− 5·6	34	17	6	0 38	+0·01	*	*
2. ENGLAND, N.E.	Alnwick Castle	50	32	46·3	34·7	40·2	− 7·3	12	26	5	0·75	?	*	*
	Shields	52	32	48·1	34·4	40·8	− 7·3	17	28	6	0·30	−0·11	*	*
	Scarborough ℍ	53	38	48·1	40·3	44·0	− 4·7	21	5	5	0·37	−0·08	*	*
	York	55	30	52·3	35·1	43·5	− 6·6	39	19	3	0·49	+0·09	48	44
	Spurn Head	51	36	47·7	38·4	42·8	− 6·1	21	10	4	0·37	?	*	*
3. ENGLAND, E.	Hillington ℍ	56	29	51·7	34·2	42·4	− 8·0	36	22	6	0·91	+0·48	48	45
	Yarmouth	54	33	50·1	38·1	43·7	− 7·6	28	11	6	0·83	+0·41	*	*
	Geldeston	57	31	52·9	36·3	44·1	− 6·3	39	16	5	0·68	+0·28	49	46
	Cambridge	58	30	52·6	36·1	43·9	− 8·0	38	17	5	0·38	−0·02	45	42
	Rothamsted	57	32	53·4	36·6	44·5	− 5·7	40	15	4	0·46	−0·03	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	56	30	52·6	34·7	43·1	− 7·3	38	20	3	0·14	−0·29	*	*
	Loughborough	56	31	53·3	36·0	44·1	− 6·8	40	17	3	0·19	−0·26	*	*
	Leicester	56	32	52·9	35·7	43·8	− 7·1	39	18	4	0·55	+0·10	44	41
	Cheadle ℍ	54	31	49·8	33·8	41·3	− 8·0	22	31	3	0·13	?	*	*
	Churchstoke ℍ	54	31	49·6	35·2	42·0	− 8·3	21	19	4	0·48	?	55	51
	Hereford ℍ	61	30	54·9	36·0	44·9	− 6·3	46	17	4	0·63	+0·21	*	*
	Cirencester	55	28	50·4	35·7	42·6	− 7·8	31	18	5	0·35	−0·15	44	42
	Oxford	56	34	51·6	38·9	44·9	− 6·3	33	9	5	0·15	−0·28	41	39
5. ENGLAND, S.	London†	57	32	54·4	39·7	46·6	− 5·5	42	6	5	0·58	+0·15	39	37
	Marlborough ℍ	57	30	52·6	36·3	44·0	− 5·4	38	16	5	0·18	−0·32	50	48
	Strathfield Turgiss ℍ	59	31	57·6	38·0	47·2	− 2·9	53	11	5	0·65	+0·25	*	*
	Dungeness	54	35	53·3	42·3	47·6	− 4·3	39	0	6	0·31	?	*	*
	Hastings (St. Leonard's)	56	35	52·2	40·3	45·9	− 5·6	34	5	6	0·39	−0·05	43	41
	Southampton	60	33	54·4	39·0	46·2	− 5·3	42	8	5	1·53	+1·07	41	39
	Hurst Castle	57	35	53·3	41·0	46·8	− 5·1	38	3	5	0·82	+0·42	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	49	31	47·8	33·8	40·4	− 7·7	16	30	5	0·86	?	*	*
	Glasgow	52	32	48·9	34·3	41·2	− 6·7	19	29	6	0·47	−0·03	39	36
	Ardrossan	52	32	50·0	35·1	42·1	− 6·1	30	19	5	0·51	0·00	*	*
	Silloth (Cumberland)	57	30	51·5	34·7	42·6	− 7·4	35	20	4	0·35	−0·05	47	43
	Douglas (Isle of Man)	54	33	50·2	37·0	43·2	− 5·2	29	14	4	0·24	−0·07	59	55
7. ENGLAND, N.W.	Newton Reigny (Penrith)	52	28	48·1	32·1	39·6	− 8·4	17	35	5	0·75	?	47	43
	Barrow-in-Furness	52	35	49·4	38·4	43·6	− 6·6	26	10	4	0·17	?	*	*
	Stonyhurst	53	32	49·4	35·0	41·8	− 7·7	21	27	7	0·72	+0·17	50	46
	Blackpool ℍ	51	29	48·8	36·6	42·3	− 8·4	25	15	3	0·20	−0·20	52	48
	Manchester	52	32	49·4	35·5	42·0	− 8·5	21	18	4	0·46	0·09	*	*
	Liverpool Obsy (Bidston)	54	38	49·9	39·1	44·2	− 5·8	28	8	6	0·31	−0·06	*	*
	Llandudno ℍ	53	37	49·9	39·4	44·3	− 6·9	27	7	2	0·38	−0·02	49	46
	Holyhead	52	40	49·3	40·9	44·9	− 6·3	25	3	4	0·18	−0·22	*	*
8. ENGLAND, S.W.	Llandovery	58	27	52·7	33·7	42·6	−8·9	39	23	5	0·45	?	*	*
	Pembroke	50	38	48·0	41·6	44·6	− 6·2	20	1	5	1·43	+0·97	60	57
	Arlington (N. Devon)	52	33	50·4	37·6	43·6	− 6·8	30	12	5	1·17	?	*	*
	Cullompton ℍ	58	30	54·1	37·3	45·3	− 6·6	42	13	6	0·62	?	48	46
	Falmouth	—	—	—	—	—	—	—	—	3	0·13	−0·57	60	58
	Plymouth	60	34	55·8	40·2	47·5	− 5·1	46	5	5	0·22	−0·31	56	54
	Prawle Point	59	36	53·1	39·4	45·8	− 5·2	38	7	4	0·07	?	*	*
9. IRELAND, N.	Malin Head	50	36	48·6	38·3	43·1	− 5·6	23	10	5	0·21	?	*	*
	Londonderry	54	34	50·6	35·9	42·8	− 6·7	31	17	6	1·38	+0·84	*	*
	Mullaghmore	52	39	49·3	40·4	44·6	− 6·0	25	4	6	0·53	?	*	*
	Belmullet	51	35	47 7	39·4	43·3	− 6·7	20	7	6	0·43	?	*	*
	Markree Castle	52	28	49·3	32·9	40·6	− 9·7	20	33	5	0·45	0·00	56	52
	Brookeborough	53	28	49·4	32·8	40·6	− 9·7	21	34	5	0·63	?	*	*
	Armagh	54	29	50·6	34·1	41·9	− 8·1	24	31	5	0·28	−0·15	51	47
	Donaghadee	52	33	49·9	37·4	43·3	− 6·4	28	13	4	0·19	−0·29	*	*
	Edgeworthstown	55	29	51·6	32·6	41·5	− 9·3	27	35	2	0·27	?	*	*
10. IRELAND, S.	Dublin	54	33	50·8	36·6	43·3	− 7·2	32	15	6	0·40	−0·03	57	53
	Parsonstown	56	29	51·4	33·4	41·9	− 8·7	26	33	3	0·25	−0·25	54	50
	Kilkenny	54	29	50·9	34·9	42·4	− 8·4	33	20	3	0·24	?	*	*
	Waterford	57	31	52·3	35·2	43·2	− 8·4	37	19	5	0·39	−0·17	*	*
	Roche's Point	55	37	52·7	38·7	45·3	− 6·2	37	9	6	0·37	−0·39	*	*
	Valencia	57	34	52·9	39·1	45·6	− 5·4	37	8	3	0·23	−0·47	69	65
	Killarney	56	28	51·3	32·4	41·3	− 9·6	26	36	4	0·24	?	*	*
	Foynes	55	36	51·4	37·4	44·0	− 6·5	33	13	4	0·50	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	41	51·6	43·6	47·2	− 4·8	36	0	3	0·15	−0·30	*	*
	Jersey (Noirmont)	55	39	53·0	43·7	48·1	− 4·2	43	0	2	0·03	−0·40	75	72

Stations marked ℍ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Note.—The return from Falmouth is incomplete, owing to the removal of the instruments to the new Observatory.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 20.] *New Series.* WEEK ENDING MONDAY, 18TH MAY, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 80.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	53	29	48·9	36·3	42·2	5 below.	25	214	16	524
	1. SCOTLAND, EAST	57	30	51·7	36·7	43·8	5 below.	35	326	15	564
	2. ENGLAND, N.E.	59	31	50·8	38·9	44·5	5 below.	31	330	9	455
	3. ENGLAND, EAST	60	29	54·6	36·4	45·0	7 below.	45	464	16	553
	4. MIDLAND COUNTIES	60	28	55·0	37·1	45·5	6 below.	45	455	14	553
	5. ENGLAND, SOUTH	61	29	56·5	39·5	47·5	5 below.	49	533	7	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	58	31	53·1	38·0	44·9	4 below.	37	327	11	451
	7. ENGLAND, N.W.	57	29	52·5	39·0	45·4	6 below.	36	347	8	425
	8. ENGLAND, S.W.	62	30	54·8	40·0	47·0	5 below.	43	484	6	331
	9. IRELAND, NORTH	59	27	52·8	39·1	45·6	5 below.	37	434	8	403
	10. IRELAND, SOUTH	60	31	54·5	40·1	46·9	5 below.	42	545	5	328
	— CHANNEL ISLANDS	56	41	53·3	44·2	48·5	5 below.	46	570	0	106

	DISTRICTS. (See p. 80.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	5	1 more.	92	12·2	42	455	37	29
	1. SCOTLAND, EAST	7	6	3 more.	73	8·8	38	464	33	30
	2. ENGLAND, N.E.	5	5	1 more.	74	8·1	41	289	37	18
	3. ENGLAND, EAST	4	4	0 (average).	72	8·5	56	519	52	33
	4. MIDLAND COUNTIES	5	3	1 less.	78	8·9	45	431	41	27
	5. ENGLAND, SOUTH	3	3	2 less.	69	10·0	50	478	47	30
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	4	2 less.	82	16·2	38	444	35	28
	7. ENGLAND, N.W.	4	3	2 less.	80	10·9	46	400	41	25
	8. ENGLAND, S.W.	3	1	5 less.	81	13·1	51	520	47	33
	9. IRELAND, NORTH	5	6	1 more.	86	12·9	42	457	38	29
	10. IRELAND, SOUTH	5	5	1 less.	86	16·9	44	530	40	33
	— CHANNEL ISLANDS	3	2	2 less.	91	11·6	69	665	66	41

General Remarks.

Weather has been in an unsettled, changeable condition, cloudy skies and showers of cold rain or hail alternating with brief intervals of sunshine. Much thunder and lightning occurred in different parts of the Kingdom, but chiefly over England during the 16th or 17th.

Temperature has continued considerably below the mean in all districts, the deficit varying from 4° in "Scotland, W." to 6° in the "Midland Counties" and "England, N.W.", and 7° in "England, E." The maxima, which were recorded in most places on the 15th or 16th, ranged from 60° to 62° over the greater part of England, to 53° in "Scotland, N." The minima were registered on the 12th or 13th, and were as low as from 27° to 31° in all districts except the "Channel Islands", where the lowest reading was 41°. Frosts on the grass were again very general, and for the season were severe.

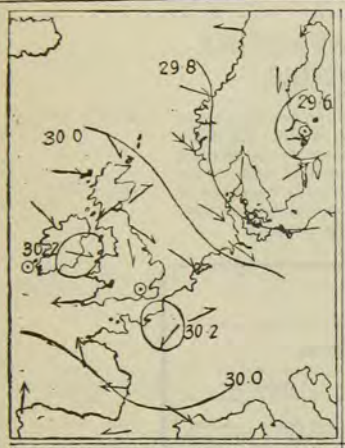
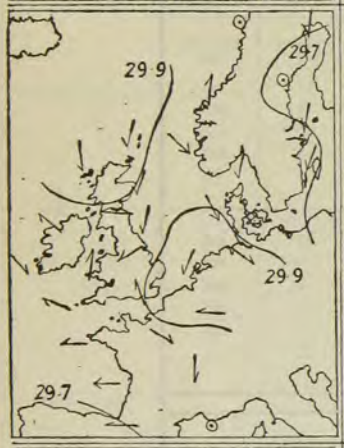
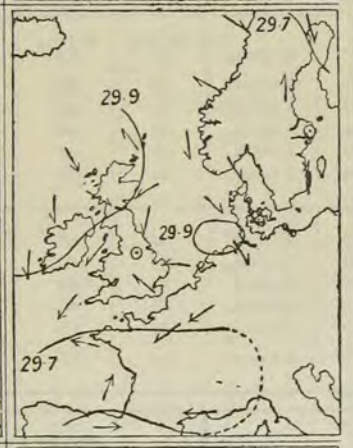
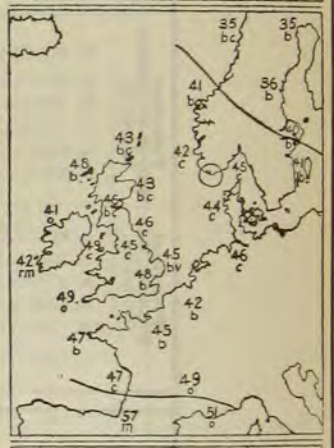
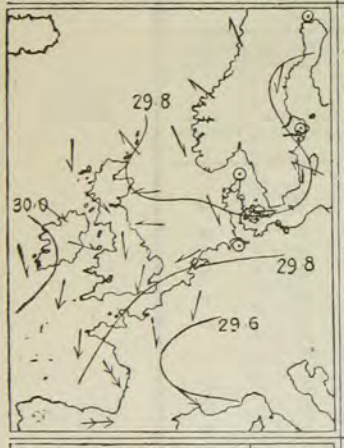
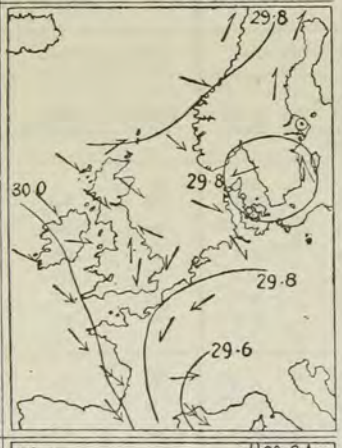
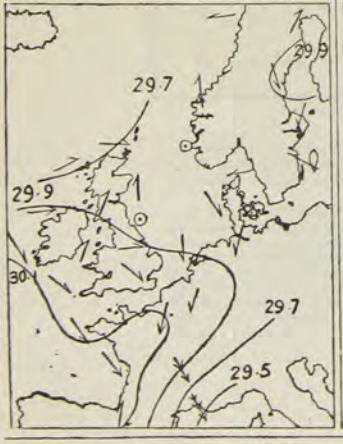
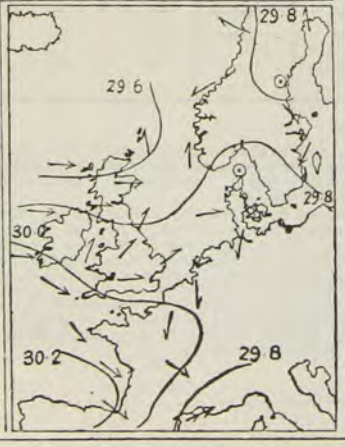
Rainfall has been rather more than the mean in "Scotland, N.", "Scotland, E.", "England, N.E.", and "Ireland, N.", and about equal to it in "England, E.", but less in all other districts.

Bright sunshine has been less prevalent than it was last week at nearly all stations, the percentages of the possible duration varying from 33 in "Scotland, E." and 35 in "Scotland, W.", to 52 in "England, E." and 66 in the "Channel Islands".

Depressions observed.—The distribution of barometric pressure has been rather complex and subject to frequent alterations. The depressions which most affected the winds and weather in our Islands, however, were those shown on the 13th and 14th, and others which appeared during the latter part of the period. The former travelled eastwards over France and caused moderate North-Easterly or Easterly breezes at nearly all our stations (but a severe North-Westerly gale in the south of France), while the latter passed slowly in a south-south-easterly direction down the North Sea, bringing moderate to strong North-Westerly to Northerly winds over the whole Kingdom.

E 17589. 350.—5/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, May 12.** *Weather* fair or fine at all but the Swedish and Western French stations. Showers of rain and hail falling later on our north and north-west coasts, and solar halos occurring at several of our southern stations. *Temperature* changed little and irregularly; readings ranging from 53° at Valencia to 38° at Loughborough. Frost occurring on the grass in London at night. *Wind* moderate South-Westerly on our northern coasts, but North-Westerly over the North Sea and Easterly at most of our southern and the French stations. Subsequently becoming rather variable over the United Kingdom. *Sea* moderate to smooth. *Barometer* falling at our western and northern stations as well as over France, but rising elsewhere. Large anticyclonic system lying over our Islands and France, with shallow depression over the Baltic. Fall of barometer extending to the eastern stations later.	
		**Wednesday, May 13.** *Weather* rainy in the south of Ireland and dull at most of our south-western stations, but fair or fine elsewhere. Showers falling later on our northern coasts; bright aurora seen at Wick at night. *Temperature* fallen several degrees in Ireland, but risen slightly elsewhere; readings ranging from 50° at Hurst Castle and Jersey to 42° at Valencia and 41° at Mullaghmore. Sharp frost on grass over the inland parts of England at night. *Wind* fresh North-Westerly on the eastern shores of the North Sea and light North-Easterly in the north of our Islands, but South-Easterly in the south and variable at the more central stations. North-Easterly winds subsequently extending to all but our extreme southern coasts. *Sea* slight or smooth. *Barometer* falling in most places. Areas of relatively high pressure lying over our northern and south-eastern districts, with a depression over the Gulf of Bothnia, and a shallow disturbance to the south-westward of our Islands. Rise taking places in west and north later.	
		**Thursday, May 14.** *Weather* fair generally, but showery at some of the western stations. Showers falling in north later. *Temperature* risen in Ireland, but fallen slightly in most parts of Great Britain; readings ranging from 50° at Dungeness to 40° in the Shetlands. Slight ground frost occurring over central England at night. *Wind* light from North-West or North on our western and northern coasts, and strong to gale from same quarters in west of France, but moderate from North-East in the south-east of England. *Sea* moderate to smooth. *Barometer* rising at our western, south-western, and the Swedish stations, but falling slightly elsewhere. Pressure highest off the west of Ireland, with well marked depression over the east of France, and large shallow area of low pressure over Scandinavia and the North Sea. Depression moving south-eastwards later, and barometer rising at our southern and the French stations.	
		**Friday, May 15.** *Weather* fair in most places, but showers reported locally. Thunderstorm occurring at Ardrossan at night, and lightning seen at Shields. *Temperature* risen a little; readings ranging from 54° at Valencia to 45° at several of the northern and north-western stations. *Wind* light and variable on the eastern shores of the North Sea, but moderate from North-West or West on our southern coasts, and South-Westerly or Southerly in the north. *Sea* moderate to smooth. *Barometer* falling on our north and north-west coasts, but rising elsewhere. High pressure system lying over the Bay of Biscay and west of France, with lowest readings to the northward of our Islands, but shallow depressions over the Baltic and Gulf of Bothnia. Fall of barometer extending to our southern coasts later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

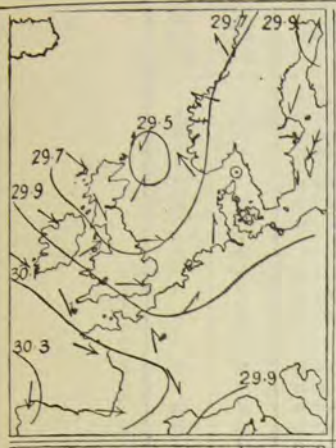
Weather

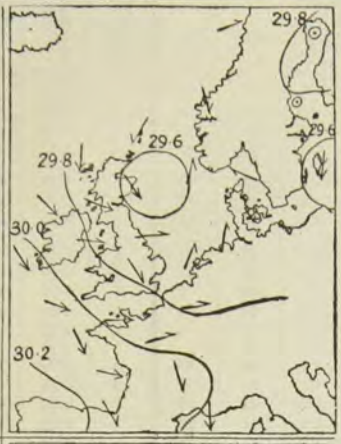
During the 24 hours succeeding 8 a.m. on the dates given.

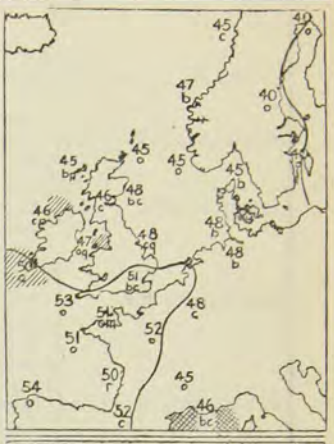
Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.







Saturday, May 16.

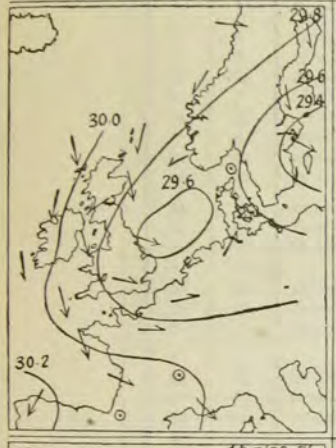
Weather fair in most places, but showers falling at Stornoway and drizzling rain at Nairn. Showers falling later in nearly all parts of the Kingdom, and thunderstorms occurring over our northern and eastern counties.

Temperature fallen slightly in the west, but risen a little elsewhere; readings ranging from 53° at Scilly to 42° at Nairn.

Wind South-Easterly in Norway and North-Easterly in the Shetlands, but North-Westerly on our west and north-west coasts and Westerly in the east; strong in force in the west but moderate or fresh elsewhere.

Sea rough in the extreme west and north-west.

Barometer falling at all but our extreme western and the southern French stations. High pressure system still lying over the Bay of Biscay with well marked depression off the north-east of Scotland. Depression moving south-eastwards later and barometer rising in north.



Sunday, May 17.

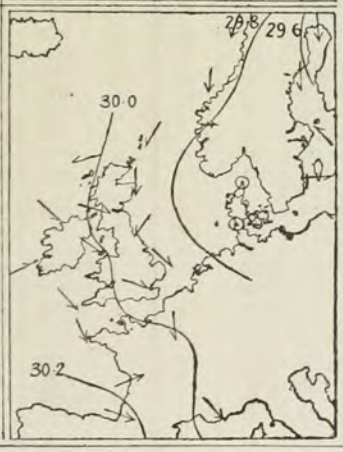
Weather cloudy and showery in most places. Hail falling later in many parts of our Islands and thunderstorms occurring over our midland, southern, and south-eastern counties.

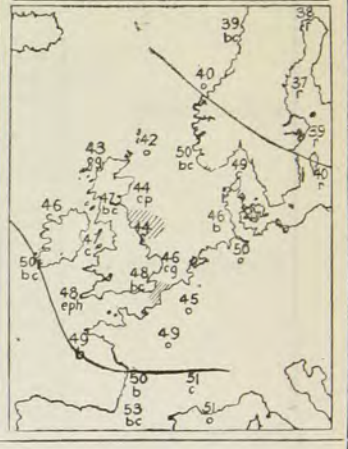
Temperature fallen a little; readings ranging from 51° at Valencia to 42° at Stornoway.

Wind moderate North-Easterly in Norway. Strong Northerly on our northern coasts and fresh North-Westerly in the south, but light from south-west over the Netherlands and south of Denmark.

Sea rough on our north-west coasts, moderate to smooth elsewhere.

Barometer rising on our western and northern coasts as well as in Norway, but falling elsewhere. Depression of previous day now lying over southern part of North Sea. Rise extending to our southern coasts later.





Monday, May 18.

Weather rainy in Sweden, but fair in our Islands and France with, however, showers locally. Thunder and lightning occurring in south of England later.

Temperature fallen slightly; readings ranging from 50° at Valencia, and 49° at Leith and Prawle Point, to 42° at Sumburgh Head, Wick, and Nairn. Sharp ground frost over Central England at night.

Wind Northerly or North-Westerly, moderate in force generally, but fresh to strong on the more exposed parts of our coast. Subsequently backing to North-West or West in the south of our Islands.

Sea rather rough at Shields and Cape Gris Nez, moderate to smooth elsewhere.

Barometer rising generally. Depression over North Sea dispersing, but new disturbance approaching our western coasts. Barometer falling in west later.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟹ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 77 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	49	33	47·1	36·3	41·4	− 4·8	14	21	5	0·29	−0·03	*	*
	Stornoway	53	33	49·9	36·6	42·9	− 4·2	29	15	6	0·78	+0·20	42	37
	Wick	53	29	49·7	36·0	42·4	− 4·4	28	17	6	0·46	+0·11	*	*
1. SCOTLAND, E.	Nairn	57	31	50·7	36·3	43·1	− 5·2	32	16	7	0·82	+0·45	*	*
	Aberdeen	57	30	51·7	35·9	43·3	− 4·4	35	17	7	0·60	+0·18	38	33
	Leith	56	30	52·7	38·0	44·9	− 4·8	37	11	6	0·48	+0·13	*	*
2. ENGLAND, N.E.	Alnwick Castle	54	34	48·9	37·4	42·8	− 5·7	25	13	7	0·79	?	*	*
	Shields	56	34	49·6	38·1	43·5	− 5·5	27	11	3	0·36	−0·04	*	*
	Scarborough ℍ	57	40	50·7	43·0	46·6	− 3·1	32	0	5	0·55	+0·10	*	*
	York	59	31	55·0	35·7	44·8	− 6·5	46	18	5	0·63	+0·13	41	37
	Spurn Head	55	37	49·7	40·3	44·7	− 5·5	26	5	3	0·32	?	*	*
3. ENGLAND, E.	Hillington ℍ	60	29	54·9	35·1	44·4	− 6·1	46	19	4	0·66	+0 23	56	51
	Yarmouth	59	36	52·0	38·9	45·1	− 6·6	35	9	4	0·35	−0·07	*	*
	Geldeston	58	31	53·8	35·6	44·2	− 7·3	42	18	4	0·36	−0·04	57	53
	Cambridge	59	33	56·9	36·3	45·0	− 6·4	52	16	4	0·52	+0·12	56	52
	Rothamsted	59	31	55·6	36·0	45·2	− 6·3	48	17	5	0·25	−0·23	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	58	29	55·3	35·9	45·0	− 6·3	47	17	7	0·62	+0·17	*	*
	Loughborough	59	33	56·3	38·0	46·6	− 5·3	49	11	6	0·31	−0·17	*	*
	Leicester	59	33	56·5	37·9	46·6	− 5·1	49	11	5	0·37	−0·10	41	37
	Cheadle ℍ	54	32	52·0	36·5	43·8	− 6·6	36	15	5	0·20	?	*	*
	Churchstoke ℍ	55	28	53·5	35·3	43·9	− 6·9	41	19	2	0·50	?	44	40
	Hereford ℍ	60	29	56·5	36·6	46·0	− 6·0	51	15	5	0·12	−0·33	*	*
	Cirencester	57	29	54·1	36·6	44·8	− 7·0	42	15	6	0·32	−0·16	45	42
	Oxford	57	33	55·7	39·7	47·2	− 4·9	46	6	3	0·21	−0·24	49	45
5. ENGLAND, S.	London†	61	33	56·9	38·4	47·1	− 6·0	50	19	2	0·33	−0·09	49	46
	Marlborough ℍ	58	29	56·2	36·3	45·7	− 4·6	50	16	5	0·45	−0·03	48	45
	Strathfield Turgiss ℍ	60	30	58·6	36·0	46·6	− 4·6	57	17	2	0·06	−0·31	*	*
	Dungeness	56	37	54·6	42·9	48·4	− 4·3	45	0	2	0·13	?	*	*
	Hastings (St. Leonard's)	58	38	54·8	42·1	48·1	− 4·3	43	0	3	0·37	−0·04	49	46
	Southampton	60	36	58·6	39·1	48·3	− 4·0	56	8	4	0·29	−0·13	55	51
	Hurst Castle	59	38	56·0	41·7	48·4	− 4·3	45	1	2	0·17	−0·21	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	56	35	51·3	37·4	43·9	− 4·9	33	13	7	0·62	?	*	*
	Glasgow	54	34	52·2	37·6	44·5	− 4·3	36	12	3	0·26	−0·23	29	26
	Ardrossan	55	33	52·4	38·7	45·1	− 3·9	36	9	4	0·24	−0·26	*	*
	Silloth (Cumberland)	58	31	53·5	37·9	45·2	− 5·5	40	11	5	0·20	−0·21	35	32
	Douglas (Isle of Man)	57	33	54·3	38·6	46·0	− 3·0	42	10	4	0·49	+0·07	51	46
7. ENGLAND, N.W.	Newton Reigny (Penrith)	54	29	51·3	34·4	42·3	− 6·7	34	21	7	0·62	?	40	36
	Barrow-in-Furness	56	36	53·1	41·0	46·6	− 4·4	36	3	1	0·05	?	*	*
	Stonyhurst	55	31	52·5	36·5	44·0	− 6·9	37	15	3	0·40	−0·15	45	41
	Blackpool ℍ	54	30	52·2	37·9	44·6	− 7·4	35	11	4	0·18	−0·22	46	41
	Manchester	55	31	52·6	37·1	44·4	− 7·3	37	14	6	0·38	−0·09	*	*
	Liverpool Obsy (Bidston)	56	39	53·3	42·0	47·3	− 4·5	37	0	2	0·08	−0·32	*	*
	Llandudno ℍ	57	37	53·1	40·8	46·6	− 5·6	37	3	2	0·11	−0·29	51	46
	Holyhead	53	39	52·0	42·6	47·0	− 4·8	35	0	3	0·16	−0·24	*	*
8. ENGLAND, S.W.	Llandovery	62	30	57·3	35·4	45·7	− 6·4	54	18	4	0·26	?	*	*
	Pembroke	53	39	51·3	42·9	46·9	− 4·7	34	0	0	—	−0·47	58	54
	Arlington (N. Devon)	54	35	51·9	38·4	44·8	− 6·7	35	10	3	0·15	?	*	*
	Cullompton ℍ	59	33	56·5	38·5	47·0	− 5·6	50	10	4	0·08	?	39	36
	Falmouth	56	39	53·2	42·5	47·5	− 4·7	39	0	2	0·09	−0·59	55	52
	Plymouth	60	35	57·8	41·1	49·0	− 4·4	53	3	3	0·13	−0·46	50	47
	Prawle Point	59	38	55·6	41·1	47·9	− 3·8	45	3	4	0·04	?	*	*
9. IRELAND, N.	Malin Head	54	40	51·1	41·0	45·8	− 3·5	31	3	5	0·24	?	*	*
	Londonderry	55	36	54·1	39·7	46·5	− 3·8	41	6	6	0·64	+0·12	*	*
	Mullaghmore	54	34	51·7	41·1	46·1	− 3·5	32	3	5	0·71	?	*	*
	Belmullet	52	36	51·0	41·3	45·9	− 4·8	30	2	7	1·07	?	*	*
	Markree Castle	55	27	52·3	37·4	44·4	− 6·9	36	13	6	0·91	+0·46	45	41
	Brookeborough	56	31	52·8	36·5	44·2	− 7·0	39	15	4	0·42	?	*	*
	Armagh	58	34	54·8	37·9	45·8	− 5·1	44	11	5	0·26	−0·14	38	34
	Donaghadee	59	35	53·6	39·9	46·3	− 3·9	39	6	5	0·34	−0·13	*	*
	Edgeworthstown	57	34	54·0	37·4	45·2	− 6·1	42	13	3	0·33	?	*	*
10. IRELAND, S.	Dublin	59	36	55·0	40·2	47·2	− 4·3	44	5	4	0·52	+0·11	45	41
	Parsonstown	58	32	54·4	38·9	46·2	− 5·4	42	9	2	0·12	−0·38	39	35
	Kilkenny	60	31	54·7	37·9	45·8	− 5·9	44	11	3	0·19	?	*	*
	Waterford	59	33	55·7	38·2	46·4	− 6·1	47	11	5	0·50	−0·04	*	*
	Roche's Point	57	39	55·0	43·3	48·8	− 3·9	48	0	5	0·51	−0·24	*	*
	Valencia	57	38	54·9	42·4	48·3	− 3·4	44	0	6	0·87	+0·22	49	45
	Killarney	58	31	53·5	38·3	45·4	− 6·1	39	10	6	0·49	?	*	*
	Foynes	56	39	52·5	41·8	46·8	− 4·5	34	1	6	0·60	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	43	52·6	44·0	48·0	− 4·8	42	0	4	0·26	−0·14	*	*
	Jersey (Noirmont)	56	41	54·0	44·3	48·9	− 4·5	48	0	2	0·07	−0·33	69	66

Stations marked ℍ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 21.] *New Series.* WEEK ENDING MONDAY, 25TH MAY, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 84.)	Temperature of the Air.								
		Observed during the Week.					Above or below the Mean for the Week	Accumulated.		
				Averages of				Above 42°		Below 42°
		Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.		For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	55	33	51·1	40·7	45·6	2 below.	31	245	4	528
	1. SCOTLAND, EAST	62	37	54·3	41·8	47·7	2 below.	41	367	1	565
	2. ENGLAND, N.E.	59	37	53·0	42·0	47·2	4 below.	36	366	0	455
	3. ENGLAND, EAST	60	32	54·8	39·9	46·9	6 below.	43	507	6	559
	4. MIDLAND COUNTIES	61	31	55·3	40·2	47·3	5 below.	45	500	5	558
	5. ENGLAND, SOUTH	61	33	55·9	43·1	49·1	4 below.	50	583	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST *	62	33	54·2	41·1	47·3	4 below.	41	368	3	454
	7. ENGLAND, N.W.	59	33	53·3	42·4	47·5	5 below.	39	386	0	425
	8. ENGLAND, S.W.	59	33	53·9	42·4	47·8	5 below.	41	525	0	331
	9. IRELAND, NORTH	62	34	53·6	40·5	46·7	5 below.	39	473	4	407
	10. IRELAND, SOUTH	60	37	55·0	42·5	48·4	5 below.	45	590	0	328
	— CHANNEL ISLANDS	56	43	53·8	45·3	49·3	5 below.	51	621	0	106

	DISTRICTS. (See p. 84.)	Rainfall.					Bright Sunshine.			
		For the Week.			Since Dec. 30/84.		Hours recorded.		Percentage of the possible Duration.	
		Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Number of Rainy Days.	Total Fall.	For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	5	1 more.	98	12·7	35	490	30	29
	1. SCOTLAND, EAST	6	12	8 more.	79	10·0	30	494	26	29
	2. ENGLAND, N.E.	7	8	4 more.	81	8·9	33	322	29	19
	3. ENGLAND, EAST	7	14	10 more.	79	9·9	29	548	26	32
	4. MIDLAND COUNTIES	6	11	6 more.	84	10·0	37	468	33	27
	5. ENGLAND, SOUTH	7	14	10 more.	76	11·4	37	515	33	30
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST *	4	8	3 more.	86	17·0	32	476	28	28
	7. ENGLAND, N.W.	5	7	3 more.	85	11·6	29	429	26	25
	8. ENGLAND, S.W.	7	18	13 more.	88	14·9	32	552	29	32
	9. IRELAND, NORTH	5	7	2 more.	91	13·6	33	490	29	29
	10. IRELAND, SOUTH	6	10	4 more.	92	17·9	34	564	30	33
	— CHANNEL ISLANDS	6	14	10 more.	97	13·0	46	711	43	42

General Remarks.

Weather has remained in a very unsettled and rainy condition in all parts of the Kingdom. Thunder and lightning were again experienced in various localities, accompanied in some places by showers of hail.

Temperature has continued below the mean, the deficit ranging from 2° in the north and east of Scotland to as much as 5° or 6° in most other districts. The maxima were generally registered on the 24th or 25th, and varied from 55° in "Scotland, N." and 56° in the "Channel Islands", to 62° in "Scotland, E.", "Scotland, W.", and "Ireland, N." The minima, which were recorded at most stations on the 19th, ranged from 43° in the "Channel Islands" and 37° in "Ireland, S.", "England, N.E.", and "Scotland, E.", to 32° in the east of England and 31° in the "Midland Counties". Some sharp grass frosts again occurred over the inland districts.

Rainfall has been more than the mean in all districts, the excess in most parts of Great Britain and in the "Channel Islands" being considerable.

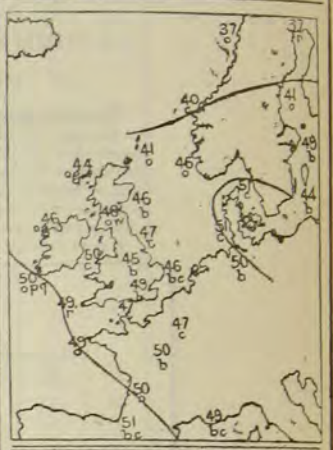
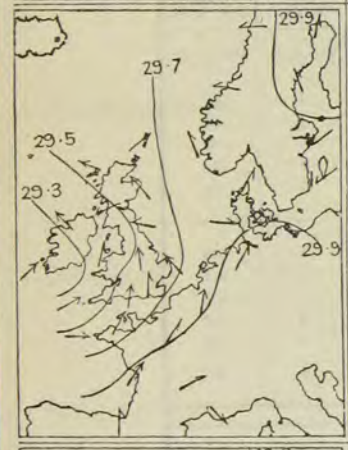
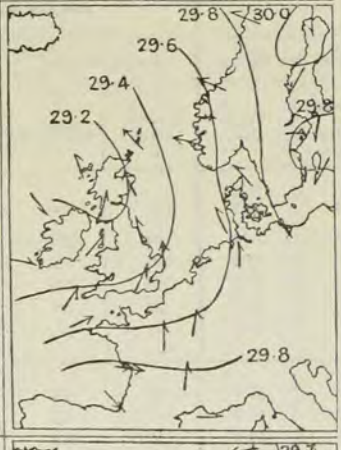
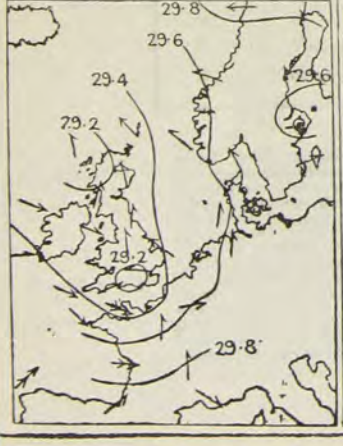
Bright sunshine shows a decided decrease, the percentages of the possible duration ranging from 26 in "Scotland, E.", "England, E.", and "England, N.W." to 33 in "England, S." and the "Midland Counties", and 43° in the "Channel Islands".

Depressions observed.—The most important depressions noticed during this period were one which travelled in a north-easterly direction over Ireland and Scotland on the 20th and subsequently moved away to the north-westward of our Islands, at the same time partially filling up; and a subsidiary disturbance which advanced over southern England during the night of the 22nd, and afterwards moved north-north-eastwards to the south of Norway. With the former the winds were South-Westerly to Westerly in the southern and south-eastern parts of the Kingdom, and South-Easterly to Easterly in the north; but during the passage of the latter, fresh or strong Westerly or West-North-Westerly winds were felt on our southern coasts and light Easterly airs over central England. In the rear of this disturbance the Westerly wind in the Channel rose to a moderate or fresh gale. At the close of the period another depression was approaching Ireland, and the winds over our Islands had returned to the South-Westward, Southward, or South-Eastward.

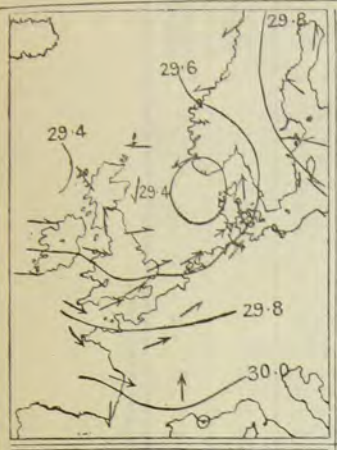
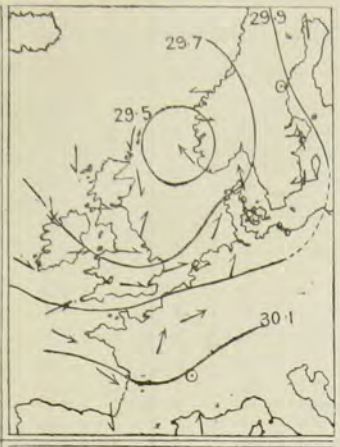
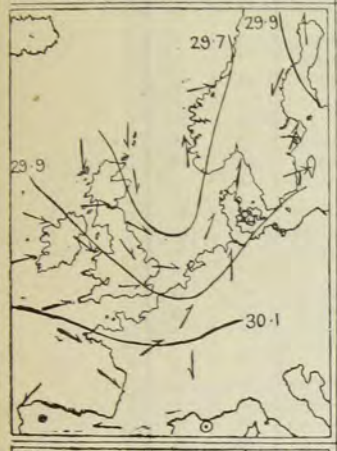
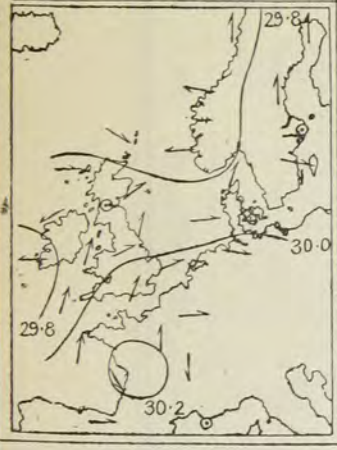
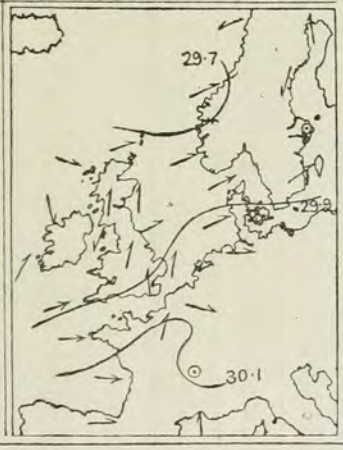
* The accumulated values in this district are liable to alteration owing to the non-arrival of the Return from Laudale.

E 17660. 350.—5/85. Wt. 58. F. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		Tuesday, May 19. *Weather* dull in the west and north, with rain locally, but fair or fine elsewhere. Rain falling later in most parts of the Kingdom. *Temperature* risen a little; readings ranging from 50° at Donaghadee, Holyhead, and Valencia to 41° in the Shetlands. Maxima below 55° in many places and below 50° at one or two of the northern stations. *Wind* light from North-West on our north and east coasts as well as in the west of Ireland, but Westerly in the south-east and Southerly over the St. George's Channel and Irish Sea. Subsequently backing to South or South-East at all our more eastern stations. *Sea* moderate or slight. *Barometer* rising a little at our south-eastern and many of the Continental stations, but falling elsewhere. Pressure highest in France, with shallow areas of low readings over our western coasts and the eastern shores of the North Sea. Fall extending to our south-eastern and the French stations later.	
		**Wednesday, May 20.** *Weather* fine in the north of Scandinavia and south of France, but cloudy or overcast elsewhere, with rain in many places. Improvement taking place in south-west later. *Temperature* fallen in Ireland and the west of England, but risen slightly in most other localities; readings ranging from 51° at Dungeness to 42° at Belmullet. Maxima below 55° in nearly all parts of the Kingdom and below 50° at several of the western and northern stations. *Wind* South-Westerly on our south-western, southern, and the French coasts, but chiefly South-Easterly elsewhere; strong in force in the extreme north and also over the English Channel. Subsequently increasing to gale at Wick. *Sea* rather rough at some of the southern and south-western stations as well as at Stornoway. *Barometer* falling generally. Readings highest in south of France, with irregularly shaped depression over the south of Ireland. Depression subsequently advancing north-eastwards, but barometer continuing to fall generally.	
		**Thursday, May 21.** *Weather* still unsettled, with cloudy skies at the majority of stations, and rain locally. Rain occurring later in all parts of the Kingdom, with thunder and lightning in many places. *Temperature* risen generally; readings ranging from 51° at Yarmouth to 43° in the Shetlands. Maxima still below 55° in many parts of the British Islands. *Wind* South-Easterly or Easterly on the eastern shores of the North Sea, North-Easterly in the Shetlands and Hebrides, North-Westerly in Ireland, South-Westerly on our southern coasts and Southerly in the east. Moderate or fresh in force in most places, but strong to a gale in the west of France. *Sea* rather rough at the mouth of the Channel and also off the north of Scotland. *Barometer* falling generally. Readings now as high in Sweden as in the south of France, and depression of previous day lying over Scotland. Depression subsequently moving away over the Atlantic, and barometer rising a little in most parts of our Islands.	
		**Friday, May 22.** *Weather* rainy over our midland and south-eastern counties as well as in the south of Norway, and showery elsewhere. Improvement taking place in south-east later, but thunderstorm occurring in some parts of Great Britain. *Temperature* risen a little in west and north, but fallen in south-east; readings ranging from 52° at Hurst Castle to 45° at Sumburgh Head, Malin Head, and Oxford. Maxima again low for time of year. *Wind* moderate or fresh from North-West on our western coasts, and from South-East in the north and east, but strong to a gale from west over the Channel Islands and Bay of Biscay. Fresh Westerly gale in eastern parts of Channel, and destructive gale in Germany during afternoon. *Sea* rough in the Channel and Bay of Biscay as well as at Stornoway. *Barometer* rising in the west and north of our Islands, but falling elsewhere. Depression passing away to north-westward of Scotland, but deep subsidiary disturbance found over Sussex. Southern depression subsequently moving away north-eastward, and brisk rise of barometer taking place in south-east.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather during the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, May 23.** *Weather* dull at the extreme northern and also at some of the French stations, but fair in most other localities. Showers falling later in most places, with thunderstorms in some parts of England. *Temperature* risen a little in the east and south-east of England, but fallen slightly in Scotland; readings ranging from 54° in London to 45° at Sumburgh Head, Nairn, and Malin Head. Maxima over England a little higher than of late, but still low for time of year. *Wind* South-Westerly in Denmark and Easterly in the south of Norway, but chiefly Westerly over England, Ireland, and France; strong in force on our west and south-west coasts. Subsequently increasing to fresh gale at some of the Channel stations. *Sea* rough off the west of Ireland and also in the western part of the Channel. *Barometer* falling a little in Denmark and the south of Norway, but rising elsewhere. Depression of previous day now lying to the southward of Norway, but shallow disturbances moving in an easterly direction over our Islands. Main depression partially dispersing later.	
		**Sunday, May 24.** *Weather* cloudy and rainy at many of our northern stations, but fair or fine elsewhere. Showers falling later in several parts of Ireland and England. *Temperature* fallen a little in the east, but risen in the west; readings varying from 52° along the south coast of Ireland and England to 46° at Sumburgh Head. *Wind* South-Westerly or Southerly on the eastern shores of the North Sea and Northerly in Scotland, but Westerly or North-Westerly elsewhere; moderate or fresh in force generally. Subsequently backing to South-West on our south-west coasts. *Sea* rather rough at Liverpool and Jersey, moderate to smooth elsewhere. *Barometer* rising generally. Pressure highest in south of France, with depression of Friday (now greatly modified in intensity) lying between the Scotch and Norwegian coasts. Slight fall taking place in extreme west in evening.	
		**Monday, May 25.** *Weather* fair at our northern, eastern, and many of the continental stations, but dull and rainy in the south of Ireland and south-west of England. Rain extending eastwards later, and a thunderstorm occurring at Shields. *Temperature* fallen slightly on our west coasts, but risen elsewhere; readings ranging from 54° at Aberdeen, and 53° at North Shields, Valencia, Scilly, and Dungeness, to 45° at Sumburgh Head. Maxima below 55° in many parts of Great Britain. *Wind* light South-Westerly at our northern and eastern stations, but light Easterly in the north-west and fresh South-Easterly in the south-west. Subsequently veering to South-West on our south-west coasts. *Sea* moderate to smooth. *Barometer* falling briskly in the west and south-west, but rising elsewhere. Anticyclone lying over France, with shallow depression to the southward of Ireland. Depression subsequently moving northwards, and barometer rising in south-west.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 81 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	52	36	48·6	40·4	44·3	− 3·0	23	4	6	0·51	+0·19	*	*
	Stornoway	55	33	52·9	39·9	46·0	− 2·1	37	6	6	0·49	−0·10	35	30
	Wick	55	37	51·9	41·7	46·5	− 1·2	33	1	5	0·55	+0·22	*	*
1. SCOTLAND, E.	Nairn	58	37	53·3	41·6	47·1	− 2·5	37	1	7	1·32	+0·92	*	*
	Aberdeen	58	37	53·3	42·3	47·5	− 1·2	39	0	5	1·20	+0·78	30	26
	Leith	62	39	56·4	41·6	48·6	− 2·4	48	1	6	0 92	+0·56	*	*
2. ENGLAND, N.E.	Alnwick Castle	56	37	52·6	40·1	46·0	− 3·6	36	5	7	1·25	?	*	*
	Shields	56	38	52·1	40·6	46·0	− 4·0	34	4	7	0·96	+0·55	*	*
	Scarborough ℍ	58	44	52·5	46·0	49·1	− 1·8	50	0	6	0·30	−0·15	*	*
	York	59	37	55·0	41·1	47·6	− 4·8	43	3	7	0·68	+0·26	33	29
	Spurn Head	58	40	52·7	42·4	47·2	− 4·5	36	0	6	0·69	?	*	*
3. ENGLAND, E.	Hillington ℍ	59	33	55·3	39·1	46·7	− 4·7	45	8	7	1·02	+0·60	26	23
	Yarmouth	57	35	52·9	41·4	46·8	− 5·4	36	2	7	1·51	+1·07	*	*
	Geldeston	59	33	54·8	40·6	47·3	− 5·7	43	4	7	1·29	+0·89	28	25
	Cambridge	60	35	56·6	39·1	47·3	− 5·6	49	8	6	1·49	+1·09	32	29
	Rothamsted	59	32	54·6	39·5	46·6	− 6·6	43	7	7	1·76	+1·27	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	61	35	57·1	41·1	48·6	− 4·1	50	3	5	0·64	+0·18	*	*
	Loughborough	59	34	55·1	40·6	47·4	− 5·7	44	4	6	1·03	+0·54	*	*
	Leicester	60	35	55·9	40·2	47·6	− 5·2	47	5	6	1·30	+0·83	30	27
	Cheadle ℍ	55	35	51·7	38·8	44·9	− 7·1	34	9	6	1·31	?	*	*
	Churchstoke ℍ	56	31	53·4	39·2	45·9	− 6·0	39	8	6	0·78	?	33	29
	Hereford ℍ	60	35	58·4	39·5	48·4	− 3·9	55	7	7	1·01	+0·54	*	*
	Cirencester	58	33	55·0	39·4	46·7	− 6·3	44	7	7	1·32	+0·84	45	41
	Oxford	59	39	55·6	42·6	48·7	− 4·5	47	0	6	1·40	+0·97	40	36
5. ENGLAND, S.	London†	61	39	56·6	42·7	49·2	− 5·3	50	0	7	0·92	+0·49	29	26
	Marlborough ℍ	61	33	55·6	40·2	47·4	− 4·2	45	5	7	?1·81	?+1·32	36	33
	Strathfield Turgiss ℍ	61	33	58·3	39·5	48·6	− 3·9	57	7	6	1·19	+0·79	*	*
	Dungeness	56	38	55·1	45·4	50·0	− 3·7	56	0	6	1·23	?	*	*
	Hastings (St. Leonard's)	56	40	53·4	45·4	49·2	− 4·5	50	0	7	1·04	+0·64	46	42
	Southampton	61	39	57·1	43·9	50·1	− 3·5	57	0	7	1·83	+1·40	35	32
	Hurst Castle	57	38	55·0	44·4	49·4	− 4·1	52	0	7	1·86	+1·47	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡												*	*
	Glasgow	60	37	54·0	40·8	47·0	− 2·7	40	3	4	1·31	+0·80	28	24
	Ardrossan	58	38	54·1	42·0	47·7	− 2·5	40	0	3	0·49	−0·01	*	*
	Silloth (Cumberland)	62	33	55·9	40·3	47·6	− 4·2	46	5	5	0·36	−0·06	31	27
	Douglas (Isle of Man)	57	37	52·8	41·2	46·7	− 4·5	36	2	5	0·97	+0·56	37	35
7. ENGLAND, N.W.	Newton Reigny (Penrith)	59	33	52·8	38·6	45·3	− 5·7	37	10	7	0·55	?	25	22
	Barrow-in-Furness	57	41	52·6	43·7	47·9	− 4·3	41	0	4	0·98	?	*	*
	Stonyhurst	57	35	53·3	41·9	47·3	− 5·0	38	0	5	0·59	−0·01	25	22
	Blackpool ℍ	56	33	52·9	42·7	47·5	− 5·7	39	0	5	0·52	+0·11	34	30
	Manchester	56	36	52·9	40·7	46·4	− 6·7	36	4	5	1·27	+0·78	*	*
	Liverpool Obsy (Bidston)	57	39	53·7	43·7	48·4	− 4·7	45	0	4	0·52	+0·12	*	*
	Llandudno ℍ	57	40	54·6	43·2	48·6	− 4·8	46	0	4	0·35	−0·04	31	28
	Holyhead	56	43	53·3	44·3	48·5	− 4·1	46	0	4	1·05	+0·66	*	*
8. ENGLAND, S.W.	Llandovery	59	39	55·3	41·0	47·7	− 5·2	44	3	7	1·67	?	*	*
	Pembroke	52	44	50·9	44·9	47·7	− 4·9	40	0	7	1·25	+0·79	40	36
	Arlington (N. Devon)	56	36	52·4	40·0	45·8	− 7·1	35	6	7	2·42	?	*	*
	Cullompton ℍ	59	33	56·7	39·7	47·7	− 6·2	50	6	7	2·16	?	33	30
	Falmouth	55	41	53·9	44·4	48·9	− 4·3	48	0	6	1·66	+1·01	34	31
	Plymouth	58	37	56·1	43·9	49·6	− 4·7	53	0	7	2·32	+1·85	22	20
	Prawle Point	54	40	52·1	42·6	47·1	− 5·3	36	0	7	1·31	?	*	*
9. IRELAND, N.	Malin Head	57	40	52·3	42·1	46·9	− 3·1	34	0	5	0·32	?	*	*
	Londonderry	61	37	55·5	40·2	47·4	− 4·0	45	5	5	0·86	+0·33	*	*
	Mullaghmore	59	40	52·9	44·3	48·3	− 4·4	44	0	6	0·99	?	*	*
	Belmullet	57	40	51·7	42·6	46·9	− 4·6	34	0	7	0·64	?	*	*
	Markree Castle	61	34	52·5	38·7	45·2	− 6·3	36	9	6	0·49	0·00	40	35
	Brookeborough	62	35	54·1	38·2	45·7	− 6·6	42	11	4	0·67	?	*	*
	Armagh	60	35	53·8	39·5	47·2	− 4·8	47	7	5	0·42	+0·01	26	23
	Donaghadee	56	37	53·0	41·0	46·6	− 4·6	36	3	5	0·78	+0·31	*	*
	Edgeworthstown	59	34	54·6	38·3	46·0	− 5·5	44	10	5	0·69	?	*	*
10. IRELAND, S.	Dublin	60	40	54·9	42·1	48·1	− 4·4	43	0	6	1·01	+0·61	33	29
	Parsonstown	59	37	54·6	40·6	47·2	− 5·5	42	4	6	1·09	+0·59	24	21
	Kilkenny	59	37	54·9	39·7	46·8	− 5·7	43	6	6	0·92	?	*	*
	Waterford	58	37	55·9	40·0	47·5	− 6·2	47	6	7	1·45	+0·92	*	*
	Roche's Point	57	42	55·3	44·3	49·5	− 4·4	53	0	5	0·76	+0·01	*	*
	Valencia	57	43	55·9	44·6	49·9	− 3·8	55	0	7	1·12	+0·45	44	40
	Killarney	59	43	54·3	43·8	48·7	− 3·8	47	0	6	0·95	?	*	*
	Foynes	58	42	54·1	45·2	49·4	− 2·9	52	0	7	0·76	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	43	53·4	44·4	48·6	− 5·1	46	0	6	1·75	+1·35	*	*
	Jersey (Noirmont)	56	43	54·1	46·1	49·9	− 4·8	55	0	5	1·07	+0·68	46	43

Stations marked ℍ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 22.] *New Series.* WEEK ENDING MONDAY, 1ST JUNE, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 88.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	60	40	54·3	44·6	49·2	0 (average).	50	295	0	528
	1. SCOTLAND, EAST	65	38	60·8	45·9	52·9	1 above.	76	443	0	565
	2. ENGLAND, N.E.	72	41	62·0	47·2	54·2	2 above.	85	451	0	455
	3. ENGLAND, EAST	75	43	64·1	48·2	55·7	2 above.	96	603	0	559
	4. MIDLAND COUNTIES	75	40	64·0	46·2	54·6	0 (average).	88	588	0	558
	5. ENGLAND, SOUTH	72	43	62·9	49·1	55·6	1 above.	95	678	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST †	64	38	57·6	46·3	51·6	0 (average).	67	433	0	453
	7. ENGLAND, N.W.	65	37	59·4	47·0	52·8	1 below.	76	462	0	425
	8. ENGLAND, S.W.	70	35	58·9	47·2	52·7	2 below.	75	600	0	331
	9. IRELAND, NORTH	71	37	59·4	46·6	52·6	0 (average).	74	547	0	407
	10. IRELAND, SOUTH *	68	38	59·9	47·6	53·4	1 below.	80	670	0	328
	— CHANNEL ISLANDS	70	47	54·7	49·4	51·9	4 below.	69	690	0	106

	DISTRICTS. (See p. 88.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	6	2 more.	104	13·3	11	501	9	28
	1. SCOTLAND, EAST	2	1	3 less.	81	10·1	47	541	39	30
	2. ENGLAND, N.E.	1	1	4 less.	82	9·0	34	356	30	20
	3. ENGLAND, EAST	1	2	2 less.	80	10·1	49	597	43	33
	4. MIDLAND COUNTIES	2	1	4 less.	86	10·1	48	516	43	28
	5. ENGLAND, SOUTH	2	2	3 less.	78	11·6	47	562	43	31
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST †	5	5	3 less.	92	17·6	40	516	34	28
	7. ENGLAND, N.W.	3	1	4 less.	88	11·7	40	469	35	26
	8. ENGLAND, S.W.	4	2	3 less.	92	15·1	32	584	29	32
	9. IRELAND, NORTH	4	4	1 less.	95	14·0	44	534	38	29
	10. IRELAND, SOUTH *	4	3	3 less.	96	18·2	36	600	32	33
	— CHANNEL ISLANDS	3	2	2 less.	100	13·2	40	751	37	41

General Remarks.

Weather over England and the east of Scotland has been much finer than of late, but over Ireland and the west and north of Scotland the conditions remained unsettled during the greater part of the period, with rather frequent, but not heavy, falls of rain.

Temperature has continued below the mean in nearly all the "Grazing Districts" and in the "Channel Islands", the deficit varying from 1° to 4°. In most of the "Wheat-producing Districts", however, the readings have exceeded the mean by 1° or 2°. The maxima were very generally recorded during the 28th, when the thermometer rose to between 69° and 71° over Ireland and Scotland, and between 65° and 75° over England. The minima (which were registered at most stations either on May 26th or June 1st) ranged from 35° in "England, S.W." to 43° in "England, E." and "England, S." and to 47° in the "Channel Islands".

Rainfall has been rather more than the mean in "Scotland, N.", but less elsewhere, especially over the English districts and in the east of Scotland.

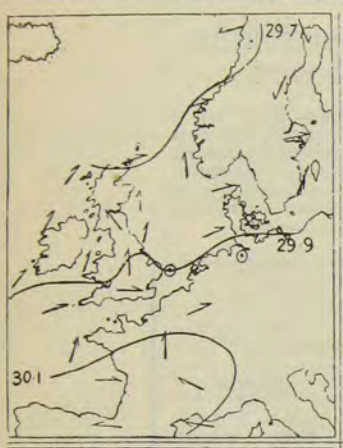
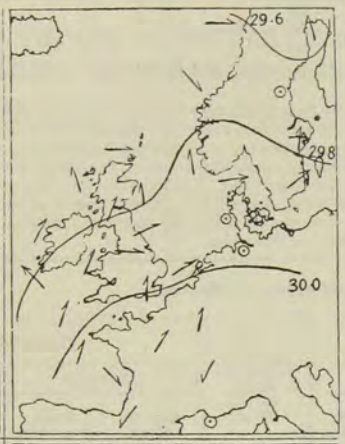
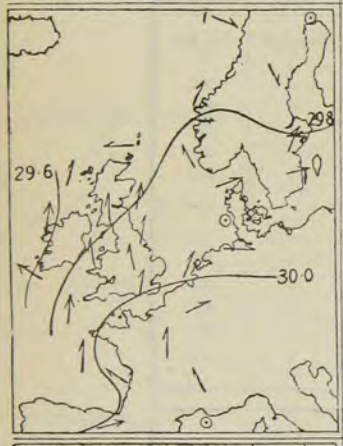
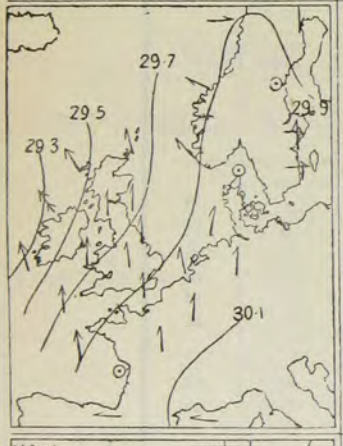
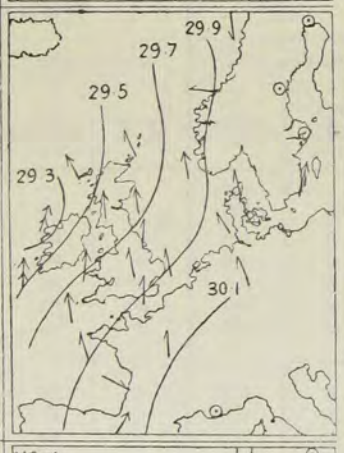
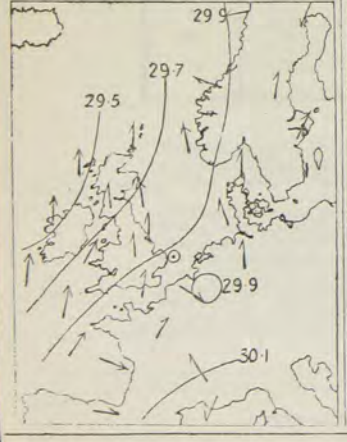
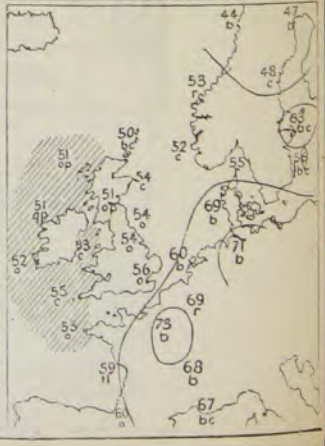
Bright sunshine has been very little prevalent in the north of Scotland, but in nearly all other places an increase is shown. The percentages of the possible duration varied from 44 in "England, E." to 29 in "England, S.W." and to 9 in "Scotland, N."

Depressions observed.—During nearly the whole of this period pressure has been highest over France, while some large depressions have moved north-eastwards outside our extreme western and northern coasts, and some subsidiary disturbances have travelled in a similar direction over our Islands. South-Westerly to Southerly winds have consequently been general; in the west and north they have at times blown strongly, attaining the force of a moderate to fresh gale on the 28th or 29th. As the week drew towards its close the barometer rose decidedly and an anticyclone appeared over our south-western districts, while the wind became light and variable.

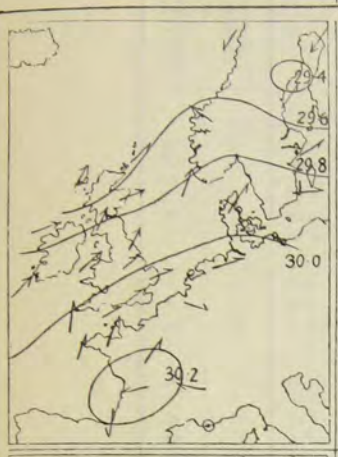
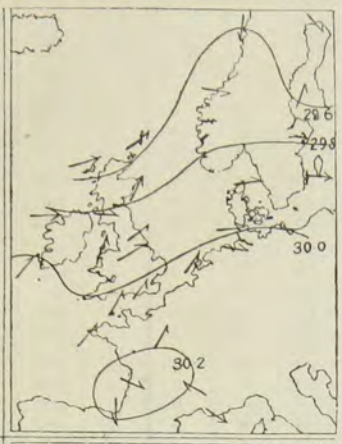
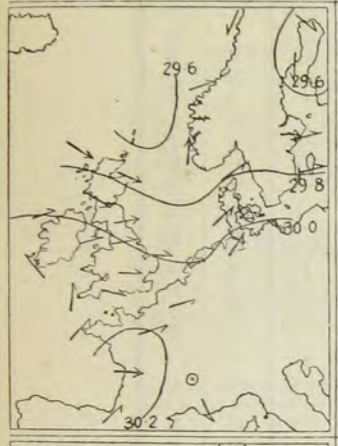
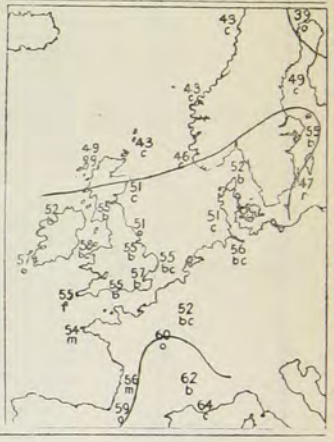
* The accumulated values in this district are liable to alteration owing to the non-arrival of the Return from Killarney.
† The accumulated values in this district have been altered slightly in consequence of the receipt of some arrears of observation.

E 17744. 350.—6/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, May 26.** *Weather* dull and cloudy over England and in some places showery, but inclined to improve; fine in north and north-east. *Temperature* little changed; maxima over inland parts of England and Ireland varying from 60° to 65°. *Wind* chiefly South-Westerly or Southerly, but varying greatly over the northern parts of the Kingdom; generally moderate in force over our Islands; strong in France. *Sea* rather rough in some parts of the Channel. *Barometer* highest over France, lowest to the northward of our Islands; some local depressions over England and the North Sea. Pressure increasing at first; falling at Valencia later on.	
		**Wednesday, May 27.** *Weather* cloudy in most places; some rain falling at times in south and west, but tendency to a general improvement continuing. *Temperature* increasing slightly; daily maxima rising to between 65° and 68° over the inland parts of England. *Wind* Southerly; moderate in the east, but becoming strong in west, and blowing a moderate gale in the south of Ireland later on. *Sea* rough in the west. *Barometer* still highest over France, but now lowest off our western coasts and falling generally. Area of low pressure approaching our western coasts.	
		**Thursday, May 28.** *Weather* fair at first except in extreme west; showers falling in many places later, rather heavily in London, and thunder occurring in south and east of England. *Temperature* showing a further increase; the maxima over the greater part of England rising to above 70°; maxima of 85° to 88° recorded over France. *Wind* Southerly and South-Westerly, strong to a gale in the west, fresh to moderate elsewhere. Local irregularities over our southern counties. *Sea* rough in the south-west, west, and north-west. *Barometer* highest over France, Germany, and southern parts of Scandinavia, lowest in far west. Large depression to westward of Ireland moving north-eastward. Small local depression passing eastwards over north of France.	
		**Friday, May 29.** *Weather* showery in west and north, fair in south, but cooler than on the 28th. *Temperature* fallen rather decidedly; maxima only 60° to 65° over England, and still lower elsewhere. *Wind* South-Westerly; strong to a gale in west and north, fresh elsewhere. No important change later. *Sea* very rough in south-west, west, and north-west. *Barometer* highest over France and lowest to north-westward of Scotland; gradients moderate. Depression in north-west passing away, and pressure consequently increasing.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, May 30.** *Weather* improving everywhere; very slight showers in a few places, fair elsewhere. *Temperature* not rising much; maxima over England ranging from 60° to 65°. *Wind* still South-Westerly, but lulling gradually in north-west and north. Local variations both in direction and force over our south-western and southern counties subsequently. *Sea* still rough in far west. *Barometer* rising. Anticyclone over France, and depression in far north passing away to the northward. Gradients becoming slight.	
		**Sunday, May 31.** *Weather* fine over England and east of Scotland; dull elsewhere, and slightly showery at some western stations. *Temperature* showing some tendency to rise, but maxima over England ranging from only 60° to 66°. *Wind* Westerly to North-Westerly; fresh in the North, moderate in the South. Southerly and South-Easterly airs on our south-western coasts in the morning. *Sea* rough at the mouth of the Tyne; moderate to smooth elsewhere. *Barometer* rising generally; highest over France, lowest in far north. Local irregularity in south-west at first, but afterwards dispersing.	
		Monday, June 1. *Weather* fine generally at first, but less fair in our northern districts later on. *Temperature* rising; thermometer over Central Ireland reaching 68° during day, and over England 63° to 66°. *Wind* North-Westerly over Great Britain, nearly calm in Ireland; Southerly breezes in west of Ireland later. *Sea* moderate to smooth. *Barometer* rising generally. Large high pressure area in west and south-west, moving eastwards.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➤ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 85 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	54	40	52·3	42·9	47·3	− 1·0	37	0	6	0·27	−0·08	*	*
	Stornoway	55	43	53·0	45·3	48·9	− 0·4	48	0	7	1·20	+0·60	11	9
	Wick	60	42	57·7	45·7	51·3	+ 2·3	65	0	5	0·44	+0·09	*	*
1. SCOTLAND, E.	Nairn	65	40	61·1	46·6	53·4	+ 1·8	80	0	3	0·13	−0·27	*	*
	Aberdeen	62	38	59·9	44·3	51·6	+ 1·3	67	0	2	0·05	−0·39	47	39
	Leith	65	43	61·4	46·7	53·6	+ 1·2	81	0	2	0 04	−0·35	*	*
2. ENGLAND, N.E.	Alnwick Castle	67	44	61·4	45·9	53·2	+ 2·1	78	0	2	0·10	?	*	*
	Shields	66	41	60·1	45·9	52·6	+ 1·4	74	0	2	0·23	−0·17	*	*
	Scarborough ⁂	72	42	63·1	48·9	55·6	+ 3·4	95	0	0	—	−0·45	*	*
	York	72	42	64·0	46·7	54·8	+ 1·9	90	0	1	0·01	−0·47	34	30
	Spurn Head	71	47	61·6	48·6	54·7	+ 1·9	89	0	2	0·03	?	*	*
3. ENGLAND, E.	Hillington ⁂	75	45	64·3	47·8	55·6	+ 2·7	95	0	2	0·22	−0·23	48	42
	Yarmouth	65	46	61·9	49·4	55·3	+ 1·7	93	0	1	0·29	−0·17	*	*
	Geldeston	74	44	64·0	48·6	55·8	+ 1·4	97	0	1	0·37	−0·03	52	46
	Cambridge	72	44	65·7	47·6	56·1	+ 1·9	99	0	1	0·17	−0·28	47	42
	Rothamsted	68	43	64·6	47·8	55·7	+ 0·5	96	0	2	0·15	−0·35	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	75	42	68·0	45·9	56·3	+ 2·0	100	0	0	—	−0·50	*	*
	Loughborough	71	45	65·1	47·3	55·7	+ 0·8	96	0	2	0·13	−0·37	*	*
	Leicester	72	43	65·9	47·1	55·9	+ 1·7	97	0	2	0·12	−0·36	48	42
	Cheadle ⁂	66	42	60·9	45·4	52·7	− 0·9	75	0	4	0·07	?	*	*
	Churchstoke ⁂	68	40	61·3	44·9	52·6	− 1·0	74	0	3	0·11	?	41	36
	Hereford ⁂	69	42	64·6	46·0	54·7	0·0	89	0	3	0·09	−0·39	*	*
	Cirencester	65	40	62·4	45·0	53·2	− 1·2	78	0	1	0·02	−0·48	50	45
	Oxford	66	44	63·9	48·1	55·5	− 0·2	95	0	0	—	−0·45	54	48
5. ENGLAND, S.	London†	72	46	66·0	50·0	57·5	+ 1·3	109	0	1	0·32	−0·14	52	47
	Marlborough ⁂	66	44	63·7	47·1	54·9	+ 1·8	90	0	1	0·01	−0·49	40	36
	Strathfield Turgiss ⁂	69	43	65·9	46·6	55·7	+ 1·8	96	0	1	0·05	−0·35	*	*
	Dungeness	62	49	60·0	51·7	55·6	+ 0·7	95	0	2	0·20	?	*	*
	Hastings (St. Leonard's)	67	49	61·2	51·4	56·0	+ 0·8	98	0	2	0·33	−0·07	58	52
	Southampton	72	44	63·7	48·7	55·8	+ 0·5	97	0	3	0·09	−0·34	39	35
	Hurst Castle	64	44	60·0	48·0	53·6	− 1·2	81	0	2	0·12	−0·28	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	60	38	56·0	47·0	51·2	+ 0·7	64	0	7	1·19	?	*	*
	Glasgow	61	42	58·5	46·1	51·9	+ 0·3	69	0	6	0·37	−0·31	31	26
	Ardrossan	60	41	55·6	46·7	50·9	− 1·0	62	0	6	0·25	−0·35	*	*
	Silloth (Cumberland)	64	38	61·3	46·6	53·5	+ 0·2	81	0	4	0·21	−0·29	43	37
	Douglas (Isle of Man)	61	38	56·7	45·1	50·6	− 1·3	60	0	3	0·23	−0·17	45	39
7. ENGLAND, N.W.	Newton Reigny (Penrith)	62	37	58·9	44·7	51·4	− 0·1	66	0	4	0·11	?	45	39
	Barrow-in-Furness	59	45	57·0	47·7	52·1	− 1·6	71	0	4	0·25	?	*	*
	Stonyhurst	64	38	59·6	45·7	52·2	− 1·3	71	0	4	0·13	−0·50	29	25
	Blackpool ⁂	63	?43	59·3	47·8	53·2	− 1·4	78	0	2	0·07	−0·37	38	33
	Manchester	64	39	60·7	45·6	52·7	− 1·8	75	0	3	0·09	−0·42	*	*
	Liverpool Obsy (Bidston)	65	44	61·4	47·9	54·3	− 0·2	86	0	3	0·06	−0·34	*	*
	Llandudno ⁂	65	44	61·3	48·8	54·7	− 0·2	89	0	0	—	−0·40	47	43
	Holyhead	60	45	56·7	48·1	52·1	− 1·6	71	0	2	0·08	−0·32	*	*
8. ENGLAND, S.W.	Llandovery	68	35	61·6	43·0	51·7	− 2·3	68	0	4	0·41	?	*	*
	Pembroke	61	47	64·9	48·7	51·6	− 2·3	67	0	4	0·16	−0·31	41	37
	Arlington (N. Devon)	64	40	59·3	45·4	51·9	− 2·3	69	0	3	0·38	?	*	*
	Cullompton ⁂	70	41	63·6	46·1	54·3	− 0·9	86	0	3	0·18	?	36	32
	Falmouth	62	49	58·4	49·9	53·9	− 0·8	83	0	5	0·22	−0·43	27	25
	Plymouth	64	47	59·3	49·9	54·3	− 1·0	86	0	6	0·18	−0·38	25	23
	Prawle Point	60	46	55·0	47·4	51·0	− 2·7	63	0	5	0·07	?	*	*
9. IRELAND, N.	Malin Head	62	45	57·6	47·4	52·2	+ 0·7	71	0	4	0·32	?	*	*
	Londonderry	66	44	61·7	46·9	53·9	+ 1·3	83	0	4	0·38	−0·18	*	*
	Mullaghmore	62	45	58·6	49·6	53·8	− 0·4	83	0	5	0·52	?	*	*
	Belmullet	61	44	55 7	48·3	51·8	− 0·7	69	0	5	0·68	?	*	*
	Markree Castle	66	37	59·6	44·4	51·5	− 2·5	67	0	5	0·59	+0·07	48	42
	Brookeborough	65	40	59·8	45·1	52·0	− 2·0	70	0	4	0·28	?	*	*
	Armagh	64	42	60·3	45·4	52·4	− 1·1	73	0	4	0·44	+0·02	39	34
	Donaghadee	62	40	58·4	45·3	51·5	− 1·2	67	0	4	0·39	−0·09	*	*
	Edgeworthstown	71	42	63·0	47·1	54·6	+ 2·1	88	0	4	0·37	?	*	*
10. IRELAND, S.	Dublin	65	45	62·4	48·2	54·9	+ 1·0	90	0	3	0·13	−0·29	48	42
	Parsonstown	68	43	61·1	46·4	53·3	− 0·7	79	0	4	0·28	−0·27	37	33
	Kilkenny	67	38	60·3	45·4	52·4	− 1·3	73	0	3	0·47	?	*	*
	Waterford	64	39	60·0	45·4	52·3	− 2·9	72	0	4	0·27	−0·26	*	*
	Roche's Point	58	45	57·4	48·7	52·8	− 2·5	76	0	6	0·44	−0·32	*	*
	Valencia	60	46	57·4	49·6	53·3	− 0·4	79	0	6	0·41	−0·29	22	20
	Killarney											?	*	*
	Foynes	67	44	60·6	49·6	54·8	+ 1·2	90	0	4	0·25	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	58	47	56·9	43·9	52·7	− 2·2	75	0	3	0·13	−0·27	*	*
	Jersey (Noirmont)	70	49	52·4	49·9	51·0	− 4·7	63	0	3	0·17	−0·21	40	37

Stations marked ⁂ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 23.] *New Series.* WEEK ENDING MONDAY, 8TH JUNE, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 92.)	Temperature of the Air.								
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.		
				Averages of				Above 42°		Below 42°
		Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.		For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	63	37	55·5	42·8	48·7	2 below.	47	342	0	528
	1. SCOTLAND, EAST	69	39	62·9	47·5	54·6	2 above.	88	531	0	565
	2. ENGLAND, N.E.	81	42	64·4	49·8	56·6	3 above.	102	553	0	455
	3. ENGLAND, EAST	85	40	71·5	50·1	60·1	4 above.	127	730	0	559
	4. MIDLAND COUNTIES	86	38	70·4	49·1	59·0	3 above.	119	707	0	558
	5. ENGLAND, SOUTH	83	40	68·3	52·7	59·9	4 above.	125	803	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	72	37	60·0	46·9	53·0	1 below.	77	510	0	453
	7. ENGLAND, N.W.	79	38	62·7	48·4	55·0	0 (average).	91	523	0	425
	8. ENGLAND, S.W.	78	39	63·9	50·6	56·8	1 above.	104	704	0	331
	9. IRELAND, NORTH	69	33	60·7	48·2	54·0	0 (average).	84	631	0	407
	10. IRELAND, SOUTH *	73	38	61·7	48·8	54·9	1 below.	90	760	0	328
	— CHANNEL ISLANDS	77	48	63·7	52·3	57·6	1 above.	109	799	0	106

	DISTRICTS. (See p. 92.)	Rainfall.					Bright Sunshine.			
		For the Week.			Since Dec. 30/84.		Hours recorded.		Percentage of the possible Duration.	
		Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Number of Rainy Days.	Total Fall.	For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	8	2 more.	109	14·1	49	550	40	29
	1. SCOTLAND, EAST	2	1	3 less.	83	10·2	46	587	38	30
	2. ENGLAND, N.E.	4	7	3 more.	86	9·7	40	396	34	21
	3. ENGLAND, EAST	4	12	8 more.	84	11·3	57	654	50	34
	4. MIDLAND COUNTIES	4	16	11 more.	90	11·7	50	566	44	29
	5. ENGLAND, SOUTH	4	10	6 more.	82	12·6	55	617	48	32
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	3	6	1 less.	95	18·2	28	544	24	28
	7. ENGLAND, N.W.	4	9	4 more.	92	12·6	42	511	37	26
	8. ENGLAND, S.W.	5	11	6 more.	97	16·2	39	623	34	32
	9. IRELAND, NORTH	3	3	3 less.	98	14·3	32	566	27	29
	10. IRELAND, SOUTH *	4	10	3 more.	100	19·3	33	633	29	33
	— CHANNEL ISLANDS	4	2	2 less.	104	13·4	62	813	56	42

General Remarks.

Weather was at first fine in England, and unsettled in Ireland and Scotland. After the 5th, however, these conditions were entirely reversed, heavy rain falling at some of the English stations on the 6th and still heavier amounts over our midland and south-eastern counties on the 8th. During the latter half of the week fog was general in the Channel, and thunderstorms occurred in many parts of England.

Temperature was a little below the mean in "Scotland, N.", "Scotland, W.", and "Ireland, S.", and about equal to it in "England, N.W." and "Ireland, N.", but above the normal elsewhere, the excess in "England, E." and "England, S." being as much as 4°. The highest maxima were observed as a rule on the 4th, when the thermometer exceeded 80° in many parts of England. The lowest minima were observed over England on the 2nd, but over Ireland and Scotland they occurred mostly on the 6th, when the thermometer fell to 33° at Markree Castle. The range of temperature for the week was unusually large; in "England, E." it amounted to 45° and in the "Midland Counties" to 48°.

Rainfall was less than the mean in "Scotland, E.", "Scotland, W.", "Ireland, N.", and the "Channel Islands", but considerably in excess over the eastern, southern, and central parts of England.

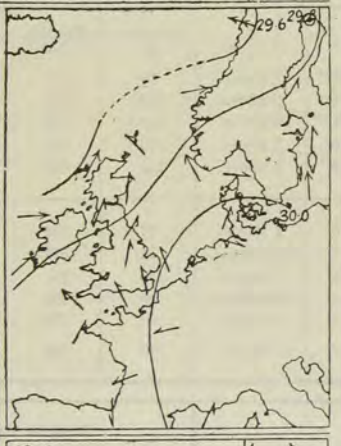
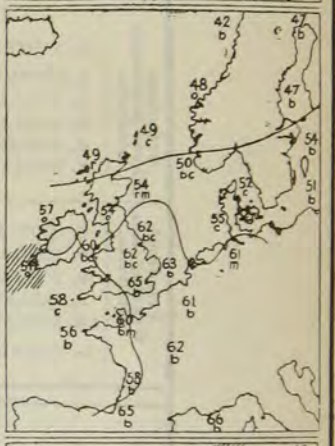
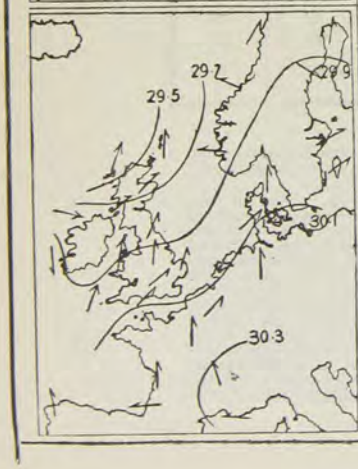
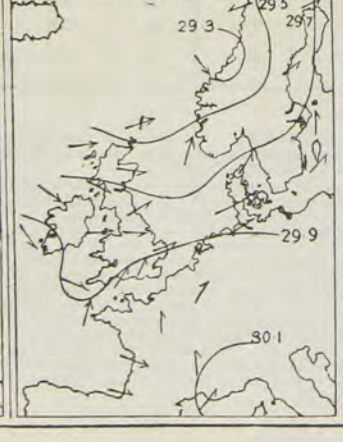
Bright sunshine was more prevalent than during the preceding week, the percentages ranging from 24 in "Scotland, W." to 50 in "England, E." and 56 in the "Channel Islands".

Depressions observed.—At the commencement of the period an anticyclone lay over the south of England, while large depressions skirted our extreme north-west coasts in a north-easterly direction. The wind was therefore light from West in the east and south, but fresh from South-west and South in the west and north. On the 3rd, the anticyclone moved away to central Europe, the depressions advanced nearer to our Islands, and the wind backed to South-West or South generally. During the night of the 5th, however, an area of relatively high pressure was formed over our more central districts, while a small hollow was developed over the south of England. The new high pressure system eventually moved away to the eastward, and on the 7th a low pressure area with two minima advanced over our southern districts causing the wind to shift to the Eastward in the north. One of the minima broke up, while the other passed over the south-east of England on the 8th, and in its rear the wind shifted to North-East generally.

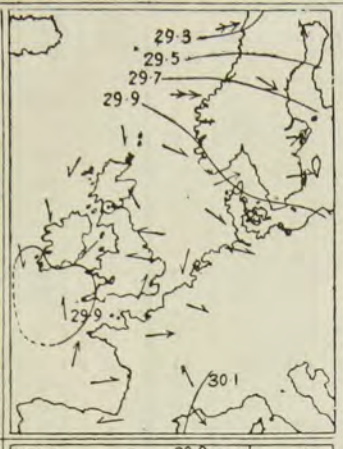
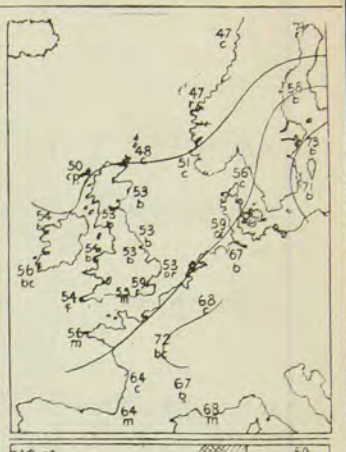
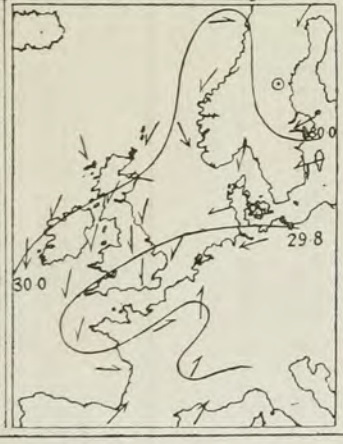
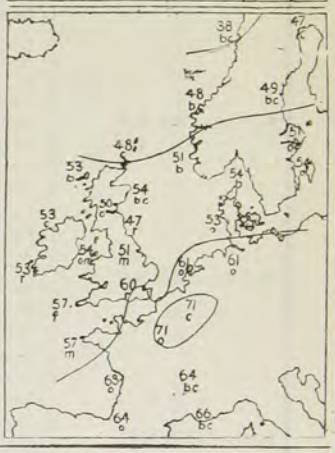
* The accumulated values in this district have been altered slightly in consequence of the receipt of some arrears of observations.

17828. 350.—6/85. Wt. 53. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		Tuesday, June 2. *Weather* very fine over England; dull and showery in Ireland and Scotland. *Temperature* rising; maxima recorded during day reaching 70° to 75° over greater part of England, but not exceeding 55° to 60° in west of Ireland, and ranging from 60° to 65° over Scotland. *Wind* light Westerly over England, fresh Southerly and South-Westerly in Ireland, and Westerly in Scotland. Backing to South-West over England later. *Sea* moderate to smooth. *Barometer* highest (30·3 ins. and upwards) in anticyclone over France, lowest to northward of Scotland; gradients slight. Mercury falling generally later on, and anticyclone moving eastwards to Germany.	
		**Wednesday, June 3.** *Weather* still very fine over England, dull in west and north, with rain in Scotland and north of Ireland. Fine weather subsequently spreading to eastern parts of Scotland and Ireland. *Temperature* again high over England (maxima, 70° to 77°), but remaining comparatively cold in Scotland and west of Ireland. *Wind* variable from the southward (South-East to South-West); light to moderate in the east; fresh in the west. *Sea* rough in the far west. *Barometer* now highest over Germany and lowest to the westward of Ireland; falling everywhere, most in the west.	
		Thursday, June 4. *Weather* remaining very fine over England, but becoming showery or squally in the west and north, with lightning locally at night. *Temperature* rising greatly over England. Maximum ranging from 80° to 85° there, but about 20° lower in Ireland and Scotland. *Wind* Southerly everywhere at first, light to moderate; afterwards backing to South-East in Ireland, and blowing strongly. *Sea* smooth at first; rising in West later on. *Barometer* highest over Germany and France, lowest to north-westward of Ireland; distribution anticyclonic and gradients slight. Depression approaching north-westward of Ireland later on.	
		**Friday, June 5.** *Weather* very fine over England at first and remaining so in some eastern parts all day; becoming unsettled elsewhere, and thundery in places. Improving weather in Ireland. *Temperature* still rather high in east and north of England. (Maxima 75° to 80°), but still relatively low in Ireland and Scotland. *Wind* South-Westerly over Great Britain (strong in the North); but North-Westerly or Northerly, moderate in Ireland. Wind becoming North-Westerly and variable over England later on. *Sea* rough in north-west and north; going down later on. *Barometer* highest in Switzerland and south-east of France, lowest in a depression (moving north-eastwards) off our north-western coast. Subsidiary depression over south-eastward of Ireland at 8 a.m.; moving eastwards and undergoing great modifications later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, June 6.** *Weather* fine in the northern, but unsettled, showery, and close over the southern parts of the Kingdom; thunder at some southern stations. *Temperature* fallen greatly over Scotland and England; daily maxima over England lower by 15°, or thereabouts, than on 5th. *Wind* light, and very variable; West-North-Westerly in Scotland, North-Easterly over our Midland counties, Southerly and South-Westerly in Channel. Variable airs in Ireland. *Sea* slight. *Barometer* unsteady; highest France and Germany, whence a "ridge" extended northwards and north-westwards to our northern coasts; shallow local depressions ver our south-western districts.	
		Sunday, June 7. *Weather* fine in Scotland, fair over the south-east of England, changeable and showery elsewhere, with thunder, and severe squalls over some parts of our north-western counties. Unsettled weather subsequently reaching over south-eastern stations. *Temperature* recovering partially at the English stations, but maxima remaining low except in east and south-east, where thermometer rose to between 70° and 73°. *Wind* chiefly Southerly in the South and in Irish Channel, South-Easterly in the East, and Easterly in the north and over Ireland; not changing much during day. *Sea* very little disturbed. *Barometer* falling. Distribution of pressure very complex, an anticyclone over south of France and another over the North Sea, with a shallow depression over our south-western districts and another over east of England—both moving very slowly eastwards, and barometer rising in far North.	
		**Monday, June 8.** *Weather* still fine in Scotland and also over greater part of Ireland; rainy elsewhere. Rainfall heavy and very continuous over south and east of England; lightning and thunder in some places on our extreme south-eastern coasts. Much wet fog on our south-west coasts. *Temperature* low generally; air oppressive in south-east. Maximum temperatures recorded 60° to 64°. *Wind* variable on our southern coasts, Southerly and South-Westerly in France, Easterly over greater part of British Islands. *Sea* very little disturbed. *Barometer* low in a trough (having two mininima) lying over our southern counties and the Channel, and separating a high-pressure area over the south of France from another over Orkneys and north of Scotland. The more eastern minimum moving north-eastwards later on, the western one dispersing, and barometer rising generally.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 89 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	56	37	52·3	41·9	46·7	− 2·8	33	0	5	0·78	−0·12	*	*
	Stornoway	58	37	55·4	43·1	48·8	− 1·9	48	0	6	1·25	+0·59	49	40
	Wick	63	40	58·9	43·4	50·6	0·0	60	0	4	0·42	+0·05	*	*
1. SCOTLAND, E.	Nairn	65	39	62·6	46·7	54·1	+ 1·3	85	0	3	0·22	−0·21	*	*
	Aberdeen	69	41	63·3	46·1	54·1	+ 2·1	85	0	2	0·08	−0·37	46	38
	Leith	68	45	62·7	49·6	55·6	+ 1·9	95	0	2	0·02	−0·39	*	*
2. ENGLAND, N.E.	Alnwick Castle	69	45	60·4	49·0	54·3	+ 1·7	86	0	3	0·31	?	*	*
	Shields	71	43	61·6	49·4	55·1	+ 2·3	92	0	2	0·38	−0·02	*	*
	Scarborough ℔	80	46	65·2	50·5	57·3	+ 3·8	107	0	6	1·32	+0·84	*	*
	York	81	42	68·3	48·7	57·8	+ 2·5	111	0	4	1·15	+0·62	40	34
	Spurn Head	80	47	66·3	51·4	58·3	+ 4·0	114	0	3	0·53	?	*	*
3. ENGLAND, E.	Hillington ℔	84	42	73·2	50·0	60·8	+ 6·2	132	0	4	1·15	+0·67	53	46
	Yarmouth	79	46	67·4	52·3	59·3	+ 4·2	121	0	3	0·47	0·00	*	*
	Geldeston	81	41	72·4	50·4	60·6	+ 4·5	130	0	4	0·39	−0·03	60	53
	Cambridge	85	44	72·9	49·7	60·5	+ 4·6	130	0	4	1·91	+1·44	58	51
	Rothamsted	82	40	71·6	48·3	59·1	+ 2·1	120	0	4	2·22	+1·70	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	86	45	71·4	49·6	59·7	+ 4·0	124	0	4	1·63	+1·10	*	*
	Loughborough	84	39	71·6	49·6	59·8	+ 3·1	125	0	4	2·30	+1·78	*	*
	Leicester	85	42	73·8	50·6	61·4	+ 5·1	126	0	4	1·75	+1·27	46	40
	Cheadle ℔	78	42	68·2	47·2	57·0	+ 2·2	105	0	4	1·89	?	*	*
	Churchstoke ℔	? 80	? 38	? 69·0	? 46·5	? 57·0	+?2·1	?105	0	4	1·90	?	49	43
	Hereford ℔	79	40	70·1	49·0	58·8	+ 2·6	118	0	3	1·04	+0·56	*	*
	Cirencester	78	40	68·3	47·3	57·1	+ 1·3	106	0	4	1·11	+0·59	51	45
	Oxford	81	45	70·7	52·6	61·0	+ 4·7	133	0	4	0·82	+0·34	53	46
5. ENGLAND, S.	London†	83	47	73·0	54·9	63·3	+ 5·3	149	0	4	1·61	+1·13	58	51
	Marlborough ℔	80	42	69·3	50·4	59·2	+ 4·7	120	0	4	0·95	+0·44	51	45
	Strathfield Turgiss ℔	83	40	71·6	49·2	59·6	+ 4·2	123	0	4	1·12	+0·68	*	*
	Dungeness	68	51	64·0	54·7	59·0	+ 2·9	119	0	3	0·88	?	*	*
	Hastings (St. Leonard's)	70	50	65·5	54·7	59·7	+ 3·3	124	0	4	0·92	+0·51	62	55
	Southampton	78	46	68·5	52·8	60·1	+ 3·4	127	0	4	0·77	+0·33	47	42
	Hurst Castle	70	45	65·9	51·9	58·4	+ 2·1	115	0	4	0·95	+0·42	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	64	42	59·9	46·7	52·8	+ 0·5	76	0	4	1·43	?	*	*
	Glasgow	66	45	60·9	48·4	54·2	+ 1·0	85	0	3	0·23	−0·41	26	22
	Ardrossan	61	40	57·9	46·4	51·9	− 1·6	69	0	2	0·18	−0·40	*	*
	Silloth (Cumberland)	72	40	63·5	47·2	54·8	0·0	90	0	3	0·22	−0·26	31	26
	Douglas (Isle of Man)	62	37	57·7	45·8	51·3	− 2·2	65	0	5	0·97	+0·56	28	24
7. ENGLAND, N.W.	Newton Reigny (Penrith)	69	40	61·2	45·2	52·6	− 0·7	74	0	3	0·47	?	40	34
	Barrow-in-Furness	68	46	59·6	49·7	54·4	− 0·6	87	0	5	0·45	?	*	*
	Stonyhurst	72	41	65·1	46·1	54·9	0·0	90	0	4	1·13	+0·44	47	41
	Blackpool ℔	72	38	61·3	45·8	53·0	− 2·8	77	0	4	0·61	+0·15	40	34
	Manchester	79	41	66·0	47·7	56·2	+ 0·3	99	0	5	1·48	+0·91	*	*
	Liverpool Obsy (Bidston)	77	46	65·7	51·3	58·0	+ 2·3	112	0	4	1·18	+0·75	*	*
	Llandudno ℔	74	47	63·7	50·5	56·6	+ 0·4	102	0	3	0·65	+0·24	42	37
	Holyhead	65	48	58·6	51·0	54·5	− 0·4	88	0	5	0·82	+0·40	*	*
8. ENGLAND, S.W.	Llandovery	78	39	69·6	48·7	58·4	+ 2·7	115	0	5	1·30	?	*	*
	Pembroke	61	45	58·3	49·7	53·7	− 1·6	82	0	5	0·85	+0·38	37	32
	Arlington (N. Devon)	76	41	66·3	50·4	57·8	+ 2·3	111	0	4	2·30	?	*	*
	Cullompton ℔	73	40	67·4	49·0	57·6	+ 1·2	109	0	4	0·93	?	43	38
	Falmouth	65	48	62·0	52·4	56·9	+ 1·0	104	0	5	1·07	+0·44	32	29
	Plymouth	70	46	64·5	52·4	58·0	+ 1·5	112	0	4	0·61	+0·15	42	38
	Prawle Point	62	50	59·4	51·7	55·3	+ 0·4	93	0	5	0·75	?	*	*
9. IRELAND, N.	Malin Head	64	47	58·4	48·7	53·2	+ 0·3	78	0	3	0·27	?	*	*
	Londonderry	68	43	63·7	48·0	55·3	+ 1·2	93	0	3	0·30	−0·28	*	*
	Mullaghmore	65	50	60·9	51·4	55·8	+ 0·5	97	0	3	0·34	?	*	*
	Belmullet	58	42	56·4	49·0	52·4	− 1·4	73	0	3	0·83	?	*	*
	Markree Castle	65	33	62·4	47·1	54·2	− 0·9	85	0	2	0·14	−0·47	34	29
	Brookeborough	67	35	62·2	46·8	54·0	− 1·2	84	0	1	0·05	?	*	*
	Armagh	69	39	62·1	47·7	54·4	− 0·5	87	0	3	0·20	−0·26	29	25
	Donaghadee	65	39	59·3	47·9	53·2	− 1·1	78	0	2	0·06	−0·41	*	*
	Edgeworthstown	69	36	60·9	47·3	53·6	− 0·1	81	0	3	0·24	?	*	*
10. IRELAND, S.	Dublin	73	44	63·1	51·5	56·9	+ 1·7	104	0	4	1·05	+0·59	31	27
	Parsonstown	71	38	63·6	47·1	54·8	− 0·5	90	0	3	0·60	+0·03	37	32
	Kilkenny	68	41	62·0	49·0	55·1	− 0·1	92	0	5	1·12	?	*	*
	Waterford	67	41	62·1	49·1	55·2	− 1·5	92	0	5	1·21	+0·63	*	*
	Roche's Point	63	46	60·0	49·0	54·1	− 2·5	85	0	4	0·45	−0·32	*	*
	Valencia	63	41	60·0	49·9	54·6	− 0·3	88	0	5	0·79	+0·02	31	27
	Killarney	69	38	61·6	47·1	53·9	− 1·1	83	0	4	1·76	?	*	*
	Foynes	71	43	61·3	48·0	54·2	− 0·6	85	0	4	0·74	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	61	50	58·6	50·6	54·3	− 1·6	86	0	4	0·20	−0·22	*	*
	Jersey (Noirmont)	77	48	68·7	54·0	60·8	+ 4·0	132	0	4	0·23	−0·14	62	56

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 24.] *New Series.* WEEK ENDING MONDAY, 15TH JUNE, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 6.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	62	35	55·7	43·4	49·1	2 below.	50	392	0	528
	1. SCOTLAND, EAST	77	35	64·6	46·5	53·0	1 above.	77	608	0	565
	2. ENGLAND, N.E.	75	40	64·3	48·2	55·6	1 above.	95	648	0	455
	3. ENGLAND, EAST	80	35	66·1	46·1	55·4	2 below.	94	824	0	559
	4. MIDLAND COUNTIES	82	37	69·7	46·7	57·4	0 (average).	108	815	0	558
	5. ENGLAND, SOUTH	84	36	68·8	48·0	57·7	0 (average).	110	913	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	70	36	62·0	45·8	53·4	1 below.	80	590	0	453
	7. ENGLAND, N.W.	73	34	64·0	47·6	55·3	1 below.	93	646 *	0	425
	8. ENGLAND, S.W.	80	35	66·7	48·3	56·9	0 (average).	104	808	0	331
	9. IRELAND, NORTH	72	34	61·9	46·8	53·8	2 below.	83	714	0	407
	10. IRELAND, SOUTH	72	37	64·7	46·2	54·8	2 below.	90	850	0	328
	— CHANNEL ISLANDS	79	48	58·5	52·1	55·2	2 below.	92	891	0	106

	DISTRICTS. (See p. 96.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	3	2 less.	114	14·4	51	601	41	29
	1. SCOTLAND, EAST	2	1	4 less.	85	10·3	47	634	39	31
	2. ENGLAND, N.E.	0	-	5 less.	86	9·7	†	†	†	†
	3. ENGLAND, EAST	0	-	5 less.	84	11·3	70	724	61	35
	4. MIDLAND COUNTIES	1	less than ½	5 less.	91	11·7	66	632	57	31
	5. ENGLAND, SOUTH	0	less than ½	5 less.	82	12·6	75	692	66	34
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	1	less than ½	5 less.	96	18·2	67	611	54	30
	7. ENGLAND, N.W.	0	-	5 less.	92	12·6	68	579	58	28
	8. ENGLAND, S.W.	0	-	5 less.	97	16·2	74	697	65	34
	9. IRELAND, NORTH	1	less than ½	5 less.	99	14·3	53	619	45	30
	10. IRELAND, SOUTH	0	-	7 less.	100	19·3	65	698	56	34
	— CHANNEL ISLANDS	1	less than ½	4 less.	105	13·4	76	889	68	43

General Remarks.

Weather has been rather showery in the extreme north of Scotland, but in all other parts of the Kingdom the conditions have been dry and very fine.

Temperature has been slightly above the mean in "Scotland, E." and "England, N.E.", and about equal to it in the "Midland Counties", "England, S.", and "England, S.W.", but 1° or 2° below in all other districts. The maxima, which were recorded either on the 12th, 13th, or 14th, varied from 62° in "Scotland, N." and 70° in "Scotland, W.", to between 80° and 84° over the greater part of England. The minima were registered at most stations either on the 9th or 10th, when the thermometer fell to between 34° and 37° in almost all parts of the country, and to 48° in the "Channel Islands". At the inland stations the range of temperature during the week has again been unusually large, that at Llandovery and Hillington being 45°, and that at Marlborough 48°.

Rainfall has been less than the mean in all districts; over the greater part of the Kingdom the fall has been scarcely appreciable.

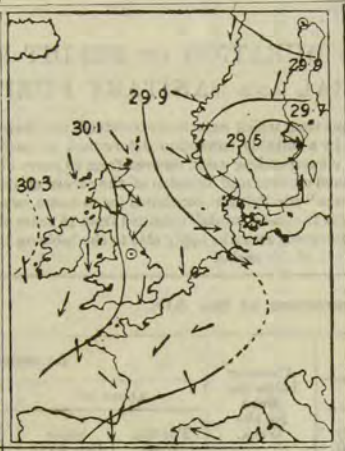
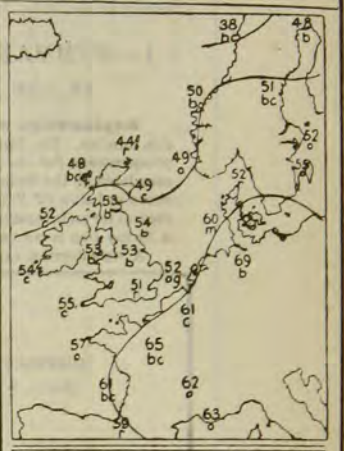
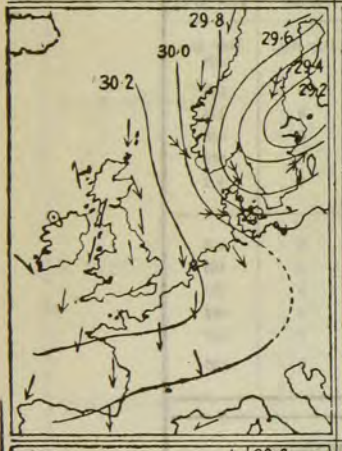
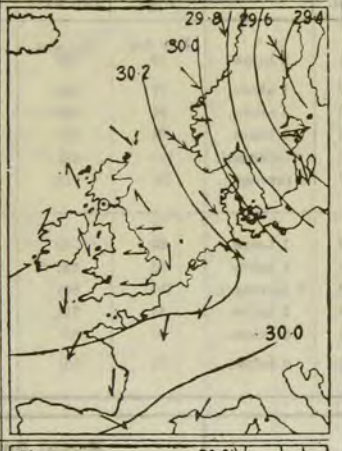
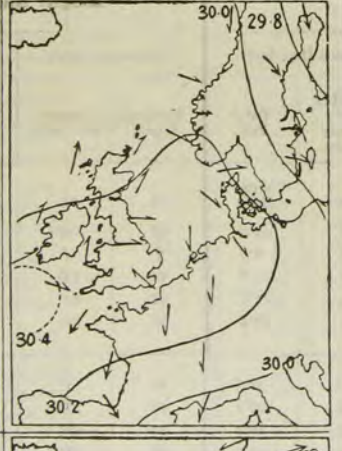
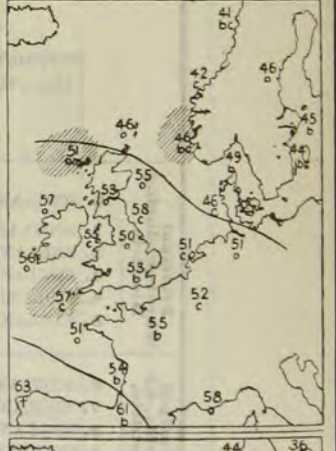
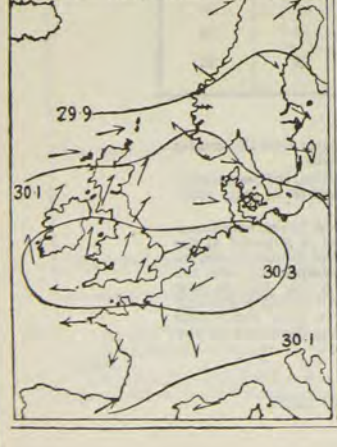
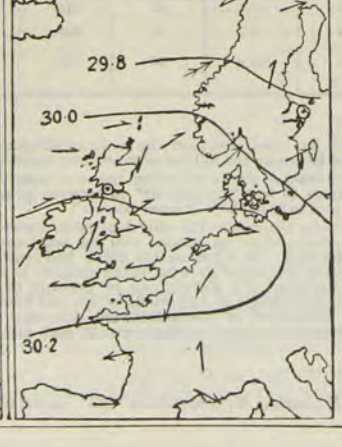
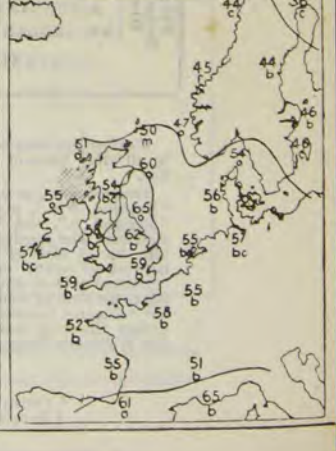
Bright sunshine shows a further increase in duration, the percentages varying from 39 in "Scotland, E." to between 54 and 66 in most other districts, and to 68 in the "Channel Islands".

Depressions observed.—The only depression observed in our neighbourhood was that noticed as passing over the south-east of England at the close of last week. By 8 A.M. on the 9th it had reached Denmark, and on the following day, after growing much deeper, it disappeared over the Gulf of Bothnia. The distribution of pressure over our Islands now became anticyclonic, and the winds, which had blown freshly or strongly from the Northward or North-Eastward, decreased in force and shifted to the Westward on our northern coasts, and to the Eastward in the south.

* Owing to a typographical error the corresponding value for last week in "England, N.W." appeared as "523" instead of "553."
† Return not yet received.

E 17943. 350.—6/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, June 9.** *Weather* still rather rainy in south-east; fine elsewhere, and subsequently improving in south-east. Rough and squally in north-east of Scotland during afternoon and evening. Fog in London at night. *Temperature* beginning to rise a little in north of England, but remaining low elsewhere. Maxima at York and Loughborough 68°; that in London only 60°. *Wind* North-Easterly and Northerly; moderate. Blowing fresh gale from North-West in squalls in north-east of Scotland in afternoon. *Sea* little disturbed at first; rough in north later. *Barometer* rising generally. The shallow depression noticed in south-east yesterday moving north-eastwards, but apparently growing deeper. Anticyclone approaching our western districts from the Atlantic.	
		**Wednesday, June 10.** *Weather* unsettled and rainy in Sweden, but fine in nearly all other parts of Western Europe. *Temperature* fallen a little in most places; readings ranging from 58° at Jersey and 57° at Valencia to 45° in the Shetlands. Maxima below 60° at several of the western and northern stations. *Wind* light and variable on our western coast and strong to a gale from North-West on the eastern shores of the North Sea, but moderate from North-East at our southern and most of the French stations. South-Easterly breezes subsequently appearing over Scotland. *Sea* rough off the south of Norway; moderate to smooth elsewhere. *Barometer* rising at all but the Swedish stations. Large anticyclone covering our Islands, with deep depression over the southern parts of the Gulf of Bothnia. Slight fall taking place over United Kingdom later.	
		**Thursday, June 11.** *Weather* dull in Scotland and the west of Ireland, but generally fine elsewhere. Rain falling on our extreme northern coasts during later part of day. *Temperature* fallen a little at our southern and most of the Continental stations, but risen elsewhere; readings ranging from 58° at Shields, Liverpool, Parsonstown, and Roche's Point, to 46° in the Shetlands. Maxima higher than on previous day, highest of all being 72° at Parsonstown and 70° at Loughborough. *Wind* strong from North-West on eastern shores of North Sea, and moderate from North-East on our southern and the French coast, but generally Southerly or South-Westerly in Scotland and the north of Ireland. *Sea* rather rough at Stornoway and Scilly, moderate to smooth elsewhere. *Barometer* falling a little on our north and north-west coasts, but rising in all other localities. Anticyclone lying over Ireland, England, and the Netherlands, with lowest pressures over the Gulf of Bothnia, but relatively low readings to the north-westward of Scotland.	
		**Friday, June 12.** *Weather* dull in Scotland and Norway, but generally fine elsewhere. A little rain falling later in the extreme north of our Island. *Temperature* risen a few degrees; readings ranging from 66° at Loughborough, to 50° in the Shetlands. Thermometer subsequently rising to 75° at Shields and York, 77° at Aberdeen and Cambridge, and 78° at Loughborough. *Wind* moderate South-Westerly or Westerly on our northern coasts, and light Easterly over the Channel and north of France, but variable at our more central stations. South-Westerly breezes extending later to all but the extreme southern stations. *Sea* rather rough off the north of Ireland, moderate to smooth elsewhere. *Barometer* falling a little at all but the Swedish and French stations. Large anticyclonic system extending from our south-west coasts across England to Germany, and depressions moving along some distance to the northward of Scotland. No important change later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

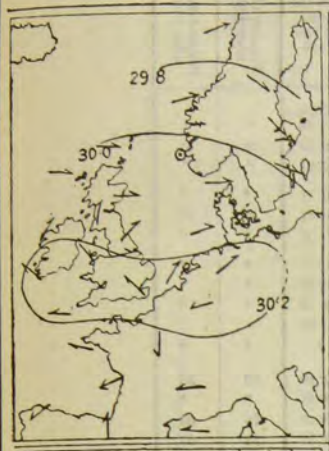
Weather

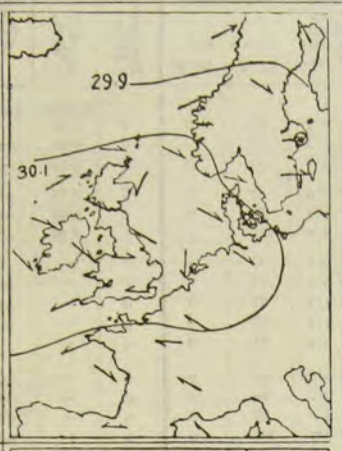
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Saturday, June 13.

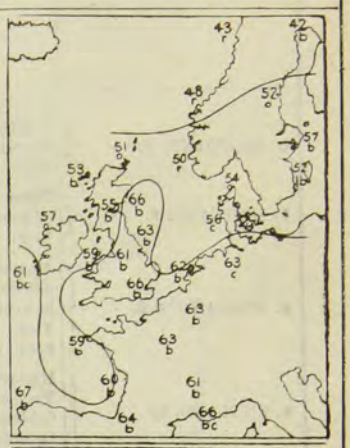
Weather dull on our extreme north and north-west coasts with rain locally, but fair or fine elsewhere.

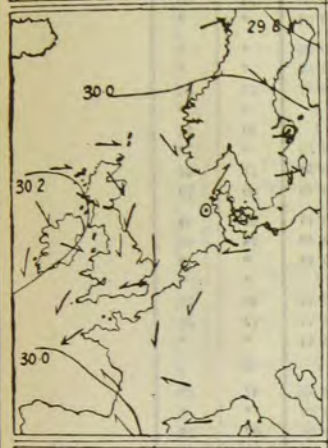
Temperature fallen a little in the west and north, but risen elsewhere; readings ranging from 66° at Aberdeen and in London to 51° at Sumburgh Head. Highest maxima 79° at Loughborough, 78° at Cambridge, and 77° in London.

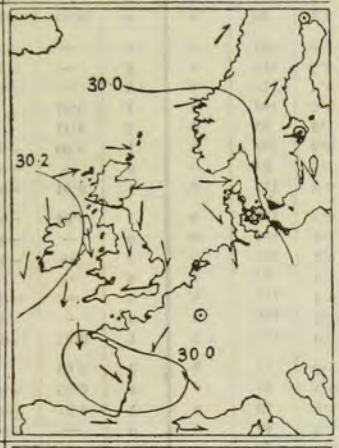
Wind light from South in the west of Ireland and from West in Scotland, and on the eastern shores of the North Sea, but Easterly over the Channel and France.

Sea slight or smooth.

Barometer rising a little in Scandinavia and Scotland, but falling elsewhere. Anticyclonic band extending from Ireland to Germany, with low pressures over the northern parts of Sweden and Norway. Fall continuing slowly throughout day and anticyclone gradually dispersing.







Sunday, June 14.

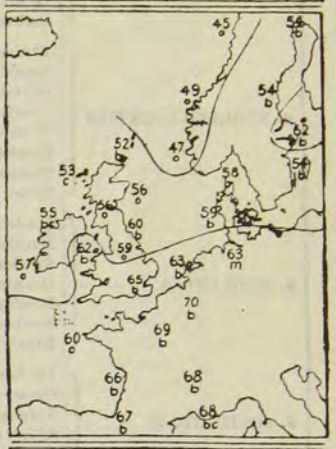
Weather fine generally, but cloudy at some of the Scotch and Norwegian stations. Thunderstorms occurring in evening at Jersey and also in France.

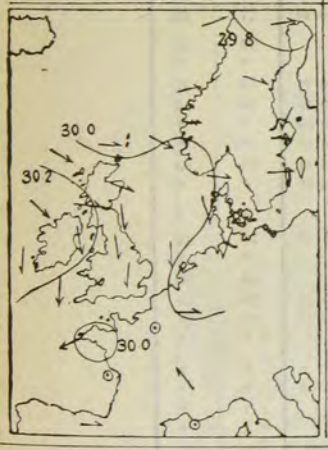
Temperature fallen a little in our Islands, but risen at most of the Continental stations; readings ranging from 68° at Jersey to 52° at Sumburgh Head and Malin Head. Subsequently rising to 78° at Loughborough, 80° at Cambridge, and 81° in London.

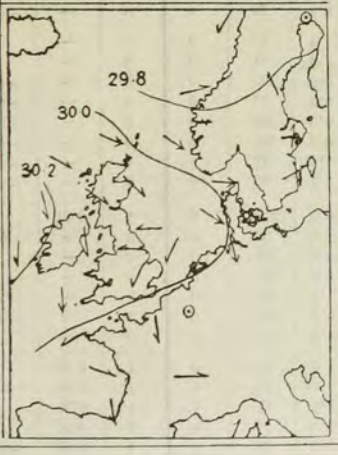
Wind light Westerly in north, but Northerly or North-Easterly elsewhere. Northerly winds subsequently freshening over the St. George's and Bristol Channels.

Sea slight or smooth.

Barometer rising at all but our southern and the French stations. Anticyclone lying over Ireland and the west of Scotland, with lowest pressures in the north of Scandinavia, but relatively low readings over the Bay of Biscay. No important change later.







Monday, June 15.

Weather fine generally, but dull over Central England in morning.

Temperature fallen in most localities—several degrees over England; readings ranging from 63° at Prawle Point to 46° in the Shetlands. Maxima considerably lower than on previous day.

Wind moderate Westerly or North-Westerly in north, but Northerly or North-Easterly elsewhere; strong in force at some of our western stations.

Sea rough at Holyhead and Scilly; moderate to smooth elsewhere.

Barometer rising over England and Ireland, but falling elsewhere. Anticyclone lying over our western coasts, with shallow depressions over the Baltic and north-west of France. Slight fall taking place later in most parts of our Islands.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 93 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	56	35	52·4	41·9	46·8	− 3·9	34	0	4	0·39	−0·08	*	*
	Stornoway	61	39	56·7	44·9	50·4	− 1·5	59	0	6	0·40	−0·30	51	41
	Wick	62	37	58·0	43·3	50·1	− 1·9	57	0	4	0·17	−0·21	*	*
1. SCOTLAND, E.	Nairn	71	40	61·3	46·9	53·6	− 0·4	81	0	3	0·05	−0·41	*	*
	Aberdeen	77	35	64·9	45·1	54·3	+ 0·4	86	0	2	0·04	−0·41	47	39
	Leith	74	38	67·7	47·6	57·0	+ 2·0	105	0	1	0·05	−0·38	*	*
2. ENGLAND, N.E.	Alnwick Castle	70	40	62·4	47·4	54·4	+ 0·3	87	0	0	—	?	*	*
	Shields	75	41	63·7	47·4	55·0	+ 0·4	91	0	0	—	−0·41	*	*
	Scarborough ℜ	74	44	63·2	49·3	55·8	+ 1·0	97	0	0	—	−0·48	*	*
	York	75	40	70·1	47·4	58·0	+ 1·2	112	0	0	—	−0·58		
	Spurn Head	67	46	62·0	49·6	55·0	− 0·6	91	0	0	—	?	*	*
3. ENGLAND, E.	Hillington ℜ	80	35	68·9	44·4	55·8	− 0·5	97	0	0	—	−0·49	62	53
	Yarmouth	65	44	60·3	49·6	54·6	− 2·1	88	0	0	—	−0·48	*	*
	Geldeston	71	38	64·4	45·4	54·2	− 2·9	85	0	0	—	−0·42	76	66
	Cambridge	80	39	70·1	45·7	57·1	− 0·7	106	0	0	—	−0·50	73	63
	Rothamsted	75	37	66·9	45·2	55·3	− 3·3	93	0	0	§0·01	−0·54	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	82	39	73·6	47·3	59·5	+ 2·3	123	0	0	—	−0·58	*	*
	Loughborough	79	37	71·4	46·9	58·3	+ 0·2	114	0	0	—	−0·54	*	*
	Leicester	81	39	71·8	47·6	58·9	+ 0·8	118	0	0	—	−0·47	53	46
	Cheadle ℜ	74	41	67·1	47·3	56·5	+ 0·2	102	0	1	0·07	?	*	*
	Churchstoke ℜ	75	37	67·4	44·4	55·1	− 1·3	92	0	2	0·17	?	59	51
	Hereford ℜ	77	40	70·5	46·2	57·5	− 0·2	109	0	1	0·09	−0·39	*	*
	Cirencester	76	37	67·4	45·1	55·5	− 1·7	95	0	0	—	−0·54	71	62
	Oxford	77	40	68·7	48·7	58·0	− 0·3	112	0	1	0·01	−0·49	80	70
5. ENGLAND, S.	London†	81	43	70·0	48·7	58·6	− 0·8	116	0	1	0·02	−0·48	61	54
	Marlborough ℜ	84	36	70·4	45·2	56·9	+ 1·0	104	0	0	—	−0·52	74	65
	Strathfield Turgiss ℜ	80	36	72·1	45·1	57·7	+ 0·8	110	0	0	—	−0·48	*	*
	Dungeness	72	42	63·3	49·9	56·1	− 1·8	99	0	0	—	?	*	*
	Hastings (St. Leonard's)	77	44	67·0	51·1	58·5	+ 0·9	116	0	0	—	−0·40	86	75
	Southampton	81	42	72·0	48·3	59·3	+ 1·2	121	0	0	—	−0·44	77	68
	Hurst Castle	75	40	67·1	47·9	56·8	− 1·0	104	0	1	0·01	−0·43	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	63	41	58·2	47·3	52·4	− 1·2	73	0	3	0·08	?	*	*
	Glasgow	67	39	62·7	46·8	54·2	− 0·5	85	0	1	0·05	−0·65	47	39
	Ardrossan	63	38	59·9	47·6	53·3	− 1·6	79	0	1	0·01	−0·59	*	*
	Silloth (Cumberland)	70	36	67·0	43·4	54·7	− 1·6	89	0	0	—	−0·52	67	56
	Douglas (Isle of Man)	68	39	62·3	43·9	52·5	− 2·2	74	0	0	—	−0·40	77	66
7. ENGLAND, N.W.	Newton Reigny (Penrith)	69	34	65·2	43·5	53·6	− 1·4	81	0	0	—	?	73	61
	Barrow-in-Furness	65	44	61·7	49·1	55·0	− 1·4	91	0	0	—	?	*	*
	Stonyhurst	71	40	67·4	47·2	56·6	+ 0·6	102	0	0	—	−0·77	67	57
	Blackpool ℜ	66	37	61·7	45·4	53·0	− 3·9	77	0	0	—	−0·49	63	54
	Manchester	73	42	68·4	47·8	57·4	0·0	108	0	0	—	−0·60	*	*
	Liverpool Obsy (Bidston)	70	44	63·6	50·1	56·4	− 0·5	101	0	0	—	−0·42	*	*
	Llandudno ℜ	70	45	63·8	49·1	55·9	− 1·3	97	0	0	—	−0·41	70	60
	Holyhead	65	46	60·0	48·9	54·1	− 1·7	85	0	0	—	−0·45	*	*
8. ENGLAND, S.W.	Llandovery	80	35	71·7	45·1	57·5	0·0	109	0	1	0·01	?	*	*
	Pembroke	68	45	60·7	50·3	55·1	− 1·4	92	0	0	—	−0·47	74	64
	Arlington (N. Devon)	74	40	68·0	47·0	56·8	0·0	104	0	0	—	?	*	*
	Cullompton ℜ	78	40	69·6	47·0	57·5	0·0	109	0	0	—	?	68	60
	Falmouth	71	47	63·6	49·8	56·2	− 1·1	99	0	0	—	−0·62	78	69
	Plymouth	76	46	68·8	49·3	58·4	+ 0·5	115	0	0	—	−0·45	77	68
	Prawle Point	72	45	64·4	49·6	56·5	+ 0·4	102	0	0	—	?	*	*
9. IRELAND, N.	Malin Head	64	46	57·0	48·7	52·6	− 1·6	74	0	1	0·03	?	*	*
	Londonderry	68	38	65·2	46·6	55·3	− 0·2	93	0	1	0·03	−0·57	*	*
	Mullaghmore	64	47	59·6	51·0	55·0	− 1·5	91	0	1	0·01	?	*	*
	Belmullet	59	44	57·0	48·6	52·5	− 2·3	74	0	2	0·05	?	*	*
	Markree Castle	68	34	62·0	44·7	52·8	− 3·5	76	0	1	0·01	−0·68	51	44
	Brookeborough	69	35	64·6	44·1	53·6	− 2·9	81	0	0	—	?	*	*
	Armagh	70	36	64·4	44·4	53·7	− 2·8	82	0	1	0·01	−0·47	54	46
	Donaghadee	72	45	61·7	48·1	54·4	− 1·2	87	0	0	—	−0·38	*	*
	Edgeworthstown	71	37	65·6	45·1	54·6	− 0·9	88	0	0	—	?	*	*
10. IRELAND, S.	Dublin	72	41	64·4	47·9	55·6	− 0·8	95	0	0	—	−0·48	59	51
	Parsonstown	72	37	65·3	44·7	54·3	− 2·1	86	0	0	—	−0·60	64	55
	Kilkenny	70	40	64·6	44·7	54·9	− 2·5	84	0	0	—	?	*	*
	Waterford	70	38	66·4	43·4	54·1	− 3·4	85	0	0	—	−0·60	*	*
	Roche's Point	67	45	64·4	48·4	55·8	− 2·2	97	0	0	—	−0·78	*	*
	Valencia	65	45	61·4	48·3	54·4	− 1·5	87	0	0	—	−0·80	72	63
	Killarney	70	37	66·6	43·6	54·3	− 2·1	86	0	1	0·01	?	*	*
	Foynes	67	45	64·2	48·9	56·0	+ 0·1	98	0	0	—	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	50	59·9	51·6	55·5	− 1·3	93	0	0	—	−0·42	*	*
	Jersey (Noirmont)	79	48	57·0	52·6	54·8	− 2·9	90	0	1	0·08	−0·27	76	68

Stations marked ℜ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Dew.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 25.] *New Series.* WEEK ENDING MONDAY, 22ND JUNE, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 100.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	58	40	54·6	44·6	49·2	3 below.	50	442	0	528
	1. SCOTLAND, EAST	64	39	60·0	47·4	53·3	2 below.	79	687	0	565
	2. ENGLAND, N.E.	67	42	61·4	49·5	55·0	2 below.	91	739	0	455
	3. ENGLAND, EAST	71	35	63·8	48·4	55·6	3 below.	95	919	0	559
	4. MIDLAND COUNTIES	72	42	63·3	48·9	55·6	3 below.	95	910	0	558
	5. ENGLAND, SOUTH	72	42	63·9	49·8	56·4	3 below.	101	1014	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	65	42	58·2	47·7	52·6	4 below.	74	664	0	453
	7. ENGLAND, N.W.	65	44	59·5	49·4	54·1	3 below.	85	731	0	425
	8. ENGLAND, S.W.	68	40	60·7	50·1	55·0	3 below.	91	899	0	331
	9. IRELAND, NORTH	64	38	58·9	46·9	52·5	4 below.	74	788	0	407
	10. IRELAND, SOUTH	70	38	61·4	48·1	54·3	4 below.	86	936	0	328
	— CHANNEL ISLANDS	71	48	60·3	52·3	56·0	3 below.	98	989	0	106

	DISTRICTS. (See p. 100.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	9	4 more.	120	15·3	14	615	11	28
	1. SCOTLAND, EAST	4	5	1 more.	89	10·8	33	667	27	31
	2. ENGLAND, N.E.	4	2	3 less.	90	9·9	30	488*	25	23
	3. ENGLAND, EAST	5	3	2 less.	89	11·6	39	763	34	35
	4. MIDLAND COUNTIES	4	3	3 less.	95	12·0	35	667	30	31
	5. ENGLAND, SOUTH	5	5	0 (average).	87	13·1	39	731	34	34
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	8	0 (average).	101	19·0	18	629	15	29
	7. ENGLAND, N.W.	4	6	0 (average).	96	13·2	16	595	14	28
	8. ENGLAND, S.W.	5	6	1 more.	102	16·8	28	725	24	34
	9. IRELAND, NORTH	6	4	2 less.	105	14·7	23	642	19	30
	10. IRELAND, SOUTH	3	2	4 less.	103	19·5	28	726	24	34
	— CHANNEL ISLANDS	5	6	1 more.	110	14·0	48	937	43	43

General Remarks.

Weather was changeable, showery, and cool generally, but over our midland and eastern counties rain was much less frequent and heavy than in the western and northern districts. A good deal of fog prevailed in the south-west of England on the 19th.

Temperature varied from 2 to 4 degrees below the mean. The maxima which occurred on various dates in the different districts, ranged from 72° in the "Midland Counties" and "England, S.", to only 58° in "Scotland, N." At many of our western and extreme northern stations the thermometer remained below 60° during the greater part of the week. The minima were registered mostly on the 17th or 18th, when the thermometer fell below 40° in Ireland, "Scotland, E.", and "England, N.E.", the lowest reading of all being 35° at Hillington.

Rainfall was less than the mean in "England, N.E.", "England, E.", and the "Midland Counties", as well as in Ireland, but elsewhere it was equal to or rather more than the normal amount.

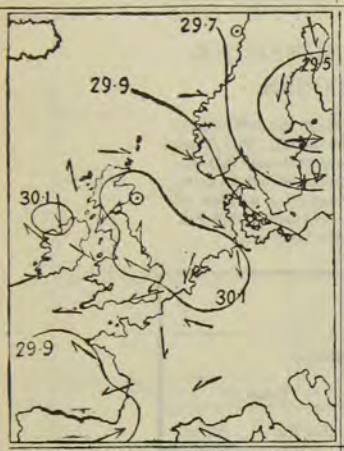
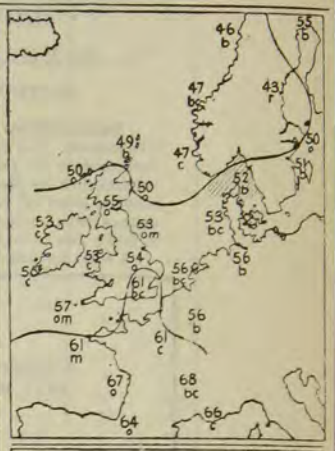
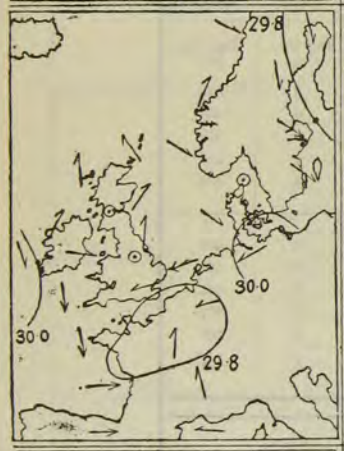
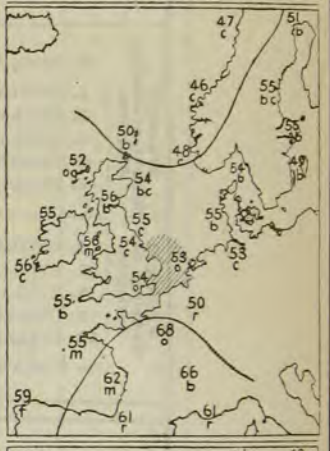
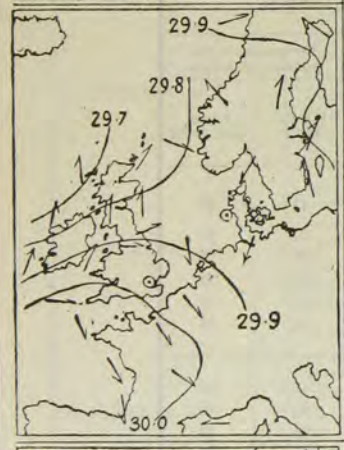
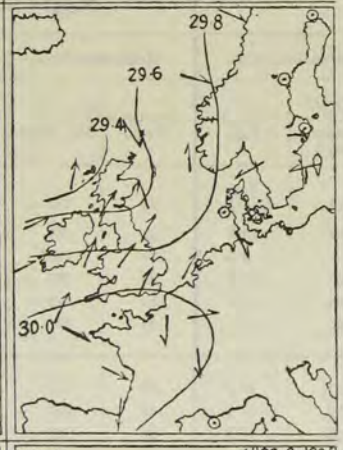
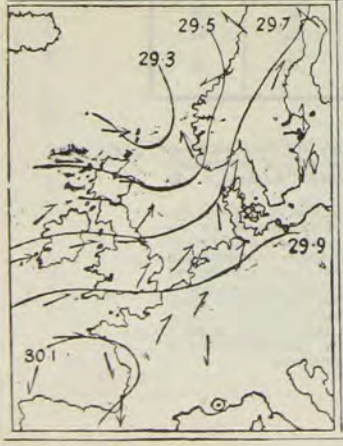
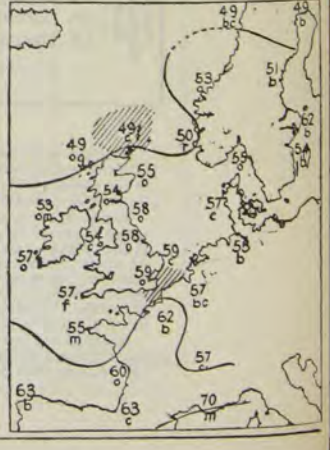
Bright sunshine was far less prevalent than during the previous week. With the exception of the "Channel Islands", where 43 % of the possible amount was registered, the percentages ranged from 34 in "England, S." to 11 in "Scotland, N."

Depressions observed.—At the commencement of the period the distribution of pressure was very irregular, the only depression of any importance being a shallow disturbance which moved eastwards over France on the 17th, occasioning Easterly and North-Easterly winds over England. In its rear an anticyclone made up to the southward of our Islands, and three large depressions passed over or near our western and northern coasts. The first and the third, which appeared respectively on the 18th and 22nd, moved north-eastward and occasioned fresh South-Westerly winds generally, but the second, which travelled eastward across Scotland on the night of the 19th, produced strong winds from West veering to North-West, and in the west and south moderate or fresh gales were experienced.

* Inclusive of 62 hours recorded during week ending June 15th, but received too late for insertion last week.

E 18028. 350.—6/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, June 16.** *Weather* fair on the whole, but dull locally. Rain falling in south of England in evening, and thunderstorms occurring at Jersey and Paris. *Temperature* fallen slightly; readings ranging from 61° in London to 49° in the Shetlands. Highest maxima 69° at Loughborough and 68° at Hurst Castle and Cambridge. *Wind* strong North-Westerly on eastern shores of North Sea, but moderate and chiefly Easterly in our Islands and France. Subsequently backing to North on our western coasts. *Sea* slight or smooth. *Barometer* rising in Norway and Denmark, but falling elsewhere. Anticyclone lying over North Sea, with well-marked depression over Baltic and shallow area of low pressure over Bay of Biscay. Latter disturbance subsequently becoming more clearly defined, and barometer continuing to fall steadily.	
		**Wednesday, June 17.** *Weather* rainy in the south and south-east of England, but fair in most other localities. Improvement taking place later in south, but a little rain falling in north. *Temperature* fallen a few degrees at our south-eastern and most of the Continental stations, but risen a little on our western and northern coasts; readings ranging from 58° at Prawle Point to 50° in the Shetlands. *Wind* light Southerly or South-Westerly on our north and north-west coasts, but moderate or fresh from North or North-East in the south of our Islands, and fresh from West in the south of France. *Sea* rather rough off the Norfolk coast, but slight or smooth elsewhere. *Barometer* falling at all but the Scandinavian stations. Pressure relatively high to the south-westward of Ireland and also over North Germany, with shallow depressions over Scotland and the north of France. French depression subsequently moving eastwards, and barometer rising on our western and southern coasts.	
		**Thursday, June 18.** *Weather* dull in Ireland and Scotland, with mist and rain in a few places, but generally fine elsewhere. Rain falling at all our western and northern stations later. *Temperature* risen a few degrees over England; readings ranging from 58° at York, to 49° in the Shetlands. Thermometer subsequently rising to 69° at Loughborough, and 71° in London and at Cambridge. *Wind* strong South-Westerly in the west of Ireland, and light Southerly in Scotland, but Westerly in England and North-Westerly or Northerly at the French stations. Backing to South-West in all parts of our Islands later. *Sea* rather rough off the west and north of Ireland, moderate to smooth elsewhere. *Barometer* falling at all but our southern and the French stations. Anticyclone lying over the Channel and greater part of France, with depression to the westward of our Islands. Depression subsequently approaching Scotland in a north-easterly direction, and barometric fall extending to our southern coasts.	
		**Friday, June 19.** *Weather* fine in Sweden and the eastern parts of England and France, but cloudy elsewhere, with rain in the south of Norway and fog in the south-west of England. Rain falling later at all our western and northern stations. *Temperature* risen a little generally; readings ranging from 63° at Cambridge to 49° in the Shetlands and Hebrides. Maxima rather lower than on previous day. *Wind* strong from South-East or South on eastern shores of North Sea, but moderate or fresh from South-West or West in our Islands and the north of France. Subsequently increasing to strong breeze on our extreme western coasts. *Sea* rather rough at Sumburgh Head and Valencia, moderate to smooth elsewhere. *Barometer* rising a little on our north and north-west coasts, but falling in most other localities. Pressure highest Bay of Biscay, with depression between the Shetlands and west of Norway. Depression subsequently passing away north-eastward, but new disturbance approaching west of Scotland, occasioning fresh fall in north.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

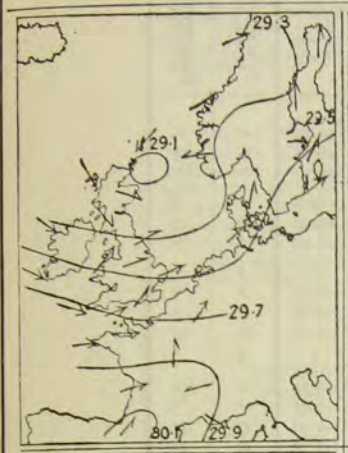
Weather

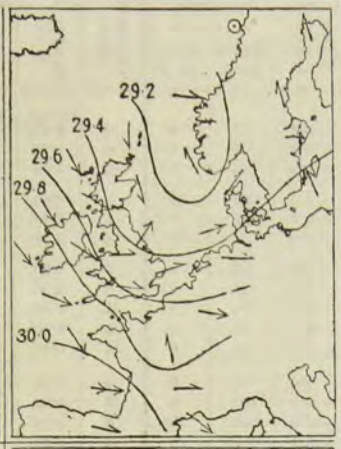
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Saturday, June 20.

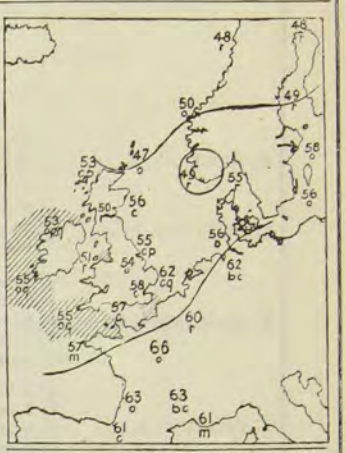
Weather fine in the east of Scotland, but cloudy and showery in all other localities. Showers falling later in all parts of the Kingdom.

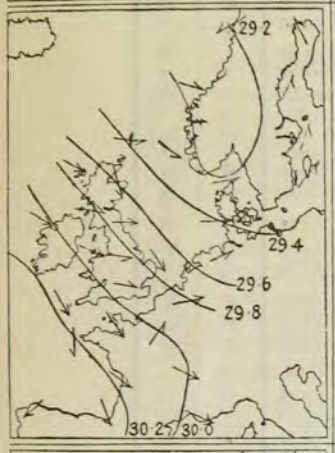
Temperature fallen a little in most places; readings ranging from 62° at Yarmouth to 47° in the Shetlands. Maxima below 60° at most of the western and extreme northern stations.

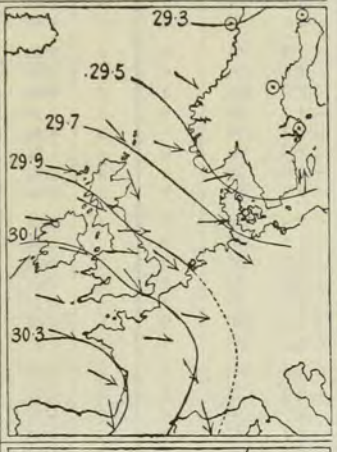
Wind moderate Easterly or North-Easterly in the Shetlands and south of Norway and light North-Westerly in Scotland, but strong from West or South-West in England, Ireland, and the north of France. Moderate or fresh gales experienced later on our western and southern coasts.

Sea rough in the west and south, but moderate to smooth in the north and east.

Barometer falling generally. Pressure highest in south of France, with centre of rather deep depression off the north-east of Scotland. Disturbance moving eastwards later, and recovery of pressure taking place over our Islands.







Sunday, June 21.

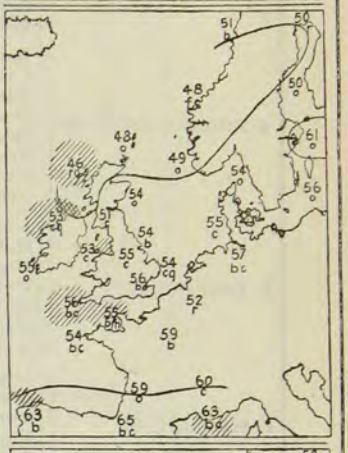
Weather rainy on our extreme north-west coasts and dull at all our northern and the Scandinavian stations, but fair or fine elsewhere. Slight showers falling later in many parts of the Kingdom.

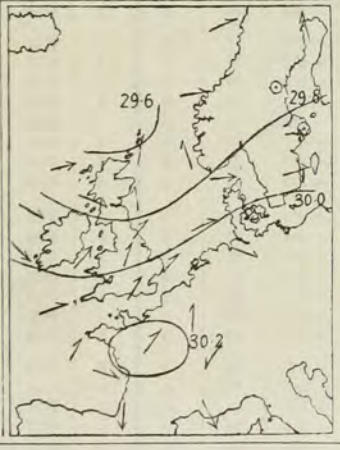
Temperature fallen slightly in most places; readings ranging from 56° at Scilly, Hurst Castle, and in London to 46° at Stornoway. Maxima below 60° at nearly all the western and northern stations.

Wind moderate Westerly on eastern shores of North Sea, but strong North-Westerly in our Islands and France. Subsequently backing to South-West and moderating on our extreme western coasts.

Sea rough west.

Barometer rising at all but the Swedish stations. Depression of previous day now lying over Scandinavia, and area of high pressure making up to the south-westward of our Islands. Slight fall taking place in west of Ireland in evening.





Monday, June 22.

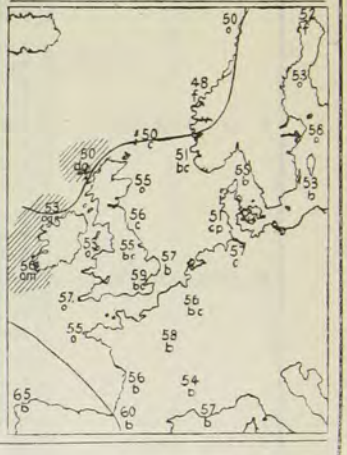
Weather fine at our midland and south-eastern as well as at most of the Continental stations, but overcast on our western and northern coasts, with rain in Ireland. Rain extending later to all but the eastern stations.

Temperature risen a little in most places; readings ranging from 59° in London to 50° at Sumburgh Head. Maxima still rather low for time of year.

Wind North-Westerly on eastern shores of North Sea, but South-Westerly in our islands and the North of France. Strong in force at the Irish stations. Subsequently veering to North-West in Ireland, and moderating.

Sea rather rough on our extreme western coasts, moderate or slight elsewhere.

Barometer falling briskly at our western and northern stations, but rising in all other localities. Anticyclone lying over France, and depression approaching our western coasts. Depression moving northwards later, and recovery of pressure taking place in west.



Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 97 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	54	42	53·0	45·0	48·7	− 3·1	47	0	6	0·75	+0·27	*	*
	Stornoway	56	42	54·1	44·4	48·9	− 4·1	48	0	6	1·25	+0·54	14	11
	Wick	58	40	56·6	44·3	50·0	− 3·0	56	0	5	0·70	+0·32	*	*
1. SCOTLAND, E.	Nairn	63	39	58·4	45·9	51·7	− 3·5	68	0	5	0·60	+0·12	*	*
	Aberdeen	64	45	60·6	47·4	53·5	− 2·0	81	0	4	0·86	+0·40	33	27
	Leith	64	46	61·1	48·9	54·6	− 1·6	88	0	2	0·11	−0·36	*	*
2. ENGLAND, N.E.	Alnwick Castle	63	42	60·1	49·0	54·2	− 1·6	85	0	5	0·20	?	*	*
	Shields	63	44	60·9	48·7	54·4	− 2·0	87	0	2	0·08	−0·35	*	*
	Scarborough ℍ	65	46	61·7	50·0	55·4	− 1·0	94	0	4	0·18	−0·31	*	*
	York	67	45	63·1	48·9	55·5	− 2·6	95	0	3	0·36	−0·22	30	25
	Spurn Head	67	47	61·0	50·9	55·6	− 1·3	95	0	6	0·16	?	*	*
3. ENGLAND, E.	Hillington ℍ	71	35	64·8	46·9	55·2	− 2·6	92	0	4	0·22	−0·29	32	27
	Yarmouth	69	47	62·6	51·1	56·5	− 1·8	102	0	6	0·28	−0·22	*	*
	Geldeston	69	45	62·5	48·9	55·2	− 2·9	92	0	6	0·19	−0·25	43	37
	Cambridge	71	38	66·1	47·9	56·4	− 3·5	101	0	4	0·35	−0·18	43	37
	Rothamsted	69	39	63·2	47·3	54·7	− 5·2	89	0	5	0·40	−0·15	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	70	44	64·9	49·0	56·4	− 2·0	101	0	3	0·22	−0·37	*	*
	Loughborough	68	42	65·0	49·7	56·8	− 2·5	104	0	1	0·10	−0·45	*	*
	Leicester	70	43	65·8	49·0	56·8	− 2·8	104	0	4	0·26	−0·23	39	33
	Cheadle ℍ	66	46	59·3	47·4	52·9	− 5·0	76	0	5	0·49	?	*	*
	Churchstoke ℍ	65	43	60·3	48·0	53·7	− 3·9	82	0	3	0·20	?	30	26
	Hereford ℍ	72	43	65·2	49·3	56·7	− 2·3	103	0	4	0·22	−0·26	*	*
	Cirencester	65	44	62·4	48·3	54·9	− 3·3	90	0	5	0·36	−0·19	36	31
	Oxford	68	46	63·3	50·4	56·4	− 2·8	101	0	5	0·42	−0·10	35	30
5. ENGLAND, S.	London†	71	42	65·3	50·0	57·1	− 3·8	106	0	4	0·23	−0·29	40	35
	Marlborough ℍ	69	43	64·3	48·0	55·6	− 1·8	95	0	5	0·62	+0·10	30	26
	Strathfield Turgiss ℍ	71	42	65·9	48·5	56·6	− 1·7	102	0	4	0·58	+0·08	*	*
	Dungeness	65	44	61·7	49·9	55·4	− 3·9	94	0	5	0·24	?	*	*
	Hastings (St. Leonard's)	66	46	61·9	50·7	55·9	− 2·8	97	0	4	0·18	−0·22	47	41
	Southampton	72	46	66·0	50·5	57·7	− 1·6	110	0	5	0·67	+0·21	39	34
	Hurst Castle	68	47	62·4	51·1	56·4	− 2·3	101	0	6	1·14	+0·67	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	60	44	56·6	46·8	51·4	− 3·6	66	0	6	1·59	?	*	*
	Glasgow	63	46	57·9	47·9	52·6	− 3·2	74	0	3	0·29	−0·44	15	12
	Ardrossan	62	45	56·7	47·7	51·9	− 4·1	69	0	6	0·51	−0·13	*	*
	Silloth (Cumberland)	65	42	61·1	48·5	54·4	− 3·3	87	0	5	0·80	+0·24	15	13
	Douglas (Isle of Man)	63	44	58·6	47·5	52·7	− 3·2	75	0	5	0·65	+0·24	24	20
7. ENGLAND, N.W.	Newton Reigny (Penrith)	61	44	57·9	47·0	52·1	− 4·0	71	0	5	0·57	?	14	12
	Barrow-in-Furness	63	49	58·3	51·4	54·6	− 2·9	88	0	4	0·37	?	*	*
	Stonyhurst	64	44	60·6	46·7	53·2	− 3·8	78	0	6	1·48	+0·68	21	18
	Blackpool ℍ	64	46	59·6	50·4	54·7	− 3·2	89	0	4	0·26	−0·27	16	14
	Manchester	65	46	59·7	48·5	53·7	− 3·8	82	0	6	0·99	+0·33	*	*
	Liverpool Obsy (Bidston)	65	50	60·7	51·0	55·5	− 2·8	95	0	3	0·28	−0·19	*	*
	Llandudno ℍ	64	49	61·2	50·4	55·4	− 2·7	94	0	3	0·11	−0·35	14	12
	Holyhead	60	48	57·9	50·0	53·7	− 3·3	82	0	4	0·39	−0·07	*	*
8. ENGLAND, S.W.	Llandovery	68	40	63·6	48·6	55·6	− 3·2	95	0	5	0·68	?	*	*
	Pembroke	59	50	56·9	51·0	53·7	− 3·8	82	0	5	0·31	−0·16	31	27
	Arlington (N. Devon)	63	43	59·6	48·7	53·8	− 4·3	83	0	5	1·24	?	*	*
	Cullompton ℍ	67	40	63·4	49·4	55·9	− 2·9	97	0	4	0·54	?	21	18
	Falmouth	61	47	59·4	51·1	55·0	− 3·3	91	0	4	0·33	−0·30	32	28
	Plymouth	67	45	63·3	52·2	57·4	− 1·9	108	0	4	0·42	−0·04	27	24
	Prawle Point	62	46	59·0	49·4	53·9	− 3·2	83	0	5	0·63	?	*	*
9. IRELAND, N.	Malin Head	57	46	56·0	48·0	51·7	− 3·7	68	0	6	0·27	?	*	*
	Londonderry	64	42	60·5	46·4	53·0	− 3·3	77	0	6	0·44	−0·22	*	*
	Mullaghmore	60	43	58·1	49·6	53·6	− 3·9	81	0	6	0·51	−0·01	*	*
	Belmullet	57	46	56 0	49·4	52·5	− 3·6	74	0	6	0·50	?	*	*
	Markree Castle	62	38	58·9	45·6	51·8	− 5·8	69	0	5	0·35	−0·36	21	18
	Brookeborough	63	39	58·8	44·5	51·2	− 6·6	64	0	5	0·74	?	*	*
	Armagh	63	41	60·0	45·4	52·2	− 5·5	71	0	6	0·30	?	24	20
	Donaghadee	62	43	59·6	46·7	52·7	− 3·8	75	0	6	0·22	−0·27	*	*
	Edgeworthstown	64	41	61·9	46·1	53·5	− 3·7	81	0	4	0·31	?	*	*
10. IRELAND, S.	Dublin	67	45	63·4	48·8	55·4	− 2·1	94	0	3	0·14	−0·35	29	25
	Parsonstown	63	46	60·7	49·0	54·4	− 2·9	87	0	4	0·40	−0·20	27	23
	Kilkenny	64	44	61·7	47·1	53·9	− 3·8	83	0	4	0·11	?	*	*
	Waterford	70	44	63·7	47·4	55·0	− 3·9	91	0	3	0·08	−0·51	*	*
	Roche's Point	65	46	62·4	49·4	55·5	− 3·6	95	0	2	0·04	−0·74	*	*
	Valencia	63	45	59·9	49·7	54·4	− 2·2	87	0	3	0·33	−0·50	29	25
	Killarney	66	38	61·2	47·6	53·9	− 3·8	83	0	4	0·22	?	*	*
	Foynes	62	43	58·1	46·0	51·6	− 5·3	67	0	3	0·61	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	52	59·4	52·4	55·7	− 2·3	96	0	5	0·38	−0·07	*	*
	Jersey (Noirmont)	71	48	61·1	52·1	56·3	− 2·6	100	0	4	0·72	+0·34	43	43

Stations marked ℍ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 26.] *New Series.* WEEK ENDING MONDAY, 29TH JUNE, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 104.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	68	35	57·9	44·4	50·7	3 below.	61	503	0	528
	1. SCOTLAND, EAST	75	39	63·5	47·5	54·9	2 below.	90	777	0	565
	2. ENGLAND, N.E.	72	38	58·9	48·2	53·2	5 below.	78	817	0	455
	3. ENGLAND, EAST	81	39	65·0	49·9	56·9	3 below.	104	1023	0	559
	4. MIDLAND COUNTIES	73	35	64·5	48·2	55·8	4 below.	97	1007	0	558
	5. ENGLAND, SOUTH	82	42	67·2	51·9	59·0	1 below.	119	1133	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	77	38	63·8	46·9	54·8	2 below.	90	754	0	453
	7. ENGLAND, N.W.	72	35	61·9	47·9	54·4	4 below.	87	818	0	425
	8. ENGLAND, S.W.	75	40	63·7	50·6	56·7	3 below.	103	1002	0	331
	9. IRELAND, NORTH	72	32	61·8	45·5	53·1	5 below.	78	866	0	407
	10. IRELAND, SOUTH	72	37	64·6	46·7	55·0	4 below.	91	1027	0	328
	— CHANNEL ISLANDS	68	52	61·1	53·6	57·1	2 below.	106	1095	0	106

	DISTRICTS. (See p. 104.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	5	0 (average).	124	15·8	45	660	36	29
	1. SCOTLAND, EAST	3	2	3 less.	92	11·0	56	723	46	31
	2. ENGLAND, N.E.	3	7	2 more.	93	10·6	28	516	24	23
	3. ENGLAND, EAST	2	1	4 less.	91	11·7	34	797	28	35
	4. MIDLAND COUNTIES	3	7	1 more.	98	12·7	43	710	37	31
	5. ENGLAND, SOUTH	1	1	4 less.	88	13·2	40	771	36	34
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	3	2	4 less.	104	19·2	54	683	45	30
	7. ENGLAND, N.W.	2	6	0 (average).	98	13·8	46	641	39	28
	8. ENGLAND, S.W.	2	9	4 more.	104	17·7	49	774	43	34
	9. IRELAND, NORTH	2	1	6 less.	107	14·8	48	690	41	30
	10. IRELAND, SOUTH	1	2	5 less.	104	19·7	68	794	59	35
	— CHANNEL ISLANDS	2	4	0 (average).	112	14·4	13	950	12	42

General Remarks.

Weather was dull and rainy in most parts of the Kingdom during the first day or two of the period, but subsequently became dry and very fine in the western and north-western districts, and dry, though generally cloudy or overcast at the southern and south-eastern stations. Severe thunderstorms were experienced over France, and on the 28th, thunder was heard at Jersey also.

Temperature has been below the mean in all districts, the deficit varying from 1° in "England, S." to 4° in the "Midland Counties", "England, N.W.", and "Ireland, S.", and to 5° in "England, N.E." and "Ireland, N." The maxima, which were recorded on the 24th in the south-east of England, and on the 28th elsewhere, ranged from 82° in "England, S." and 81° in "England, E.", to 68° in "Scotland, N." and the "Channel Islands". The minima, which were registered either on the 25th, 26th, or 27th, were very low for the season. In "Ireland, N." the thermometer fell to 32° (at Markree), and in most other districts to between 35° and 39°, but in "England, S." 42° was the lowest reading, and in the "Channel Islands" 52°.

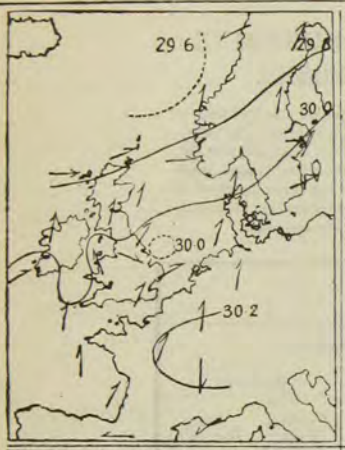
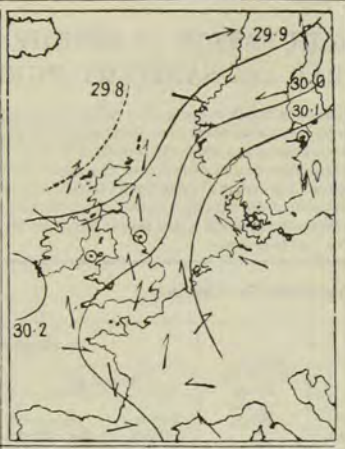
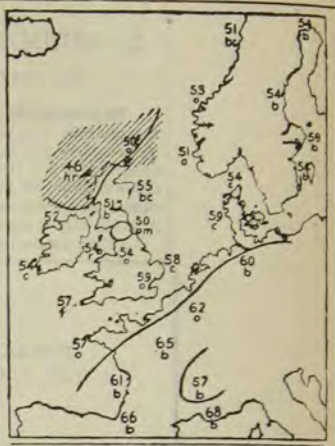
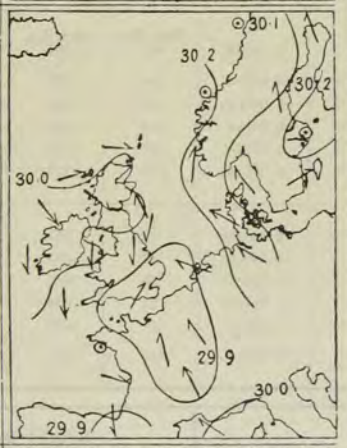
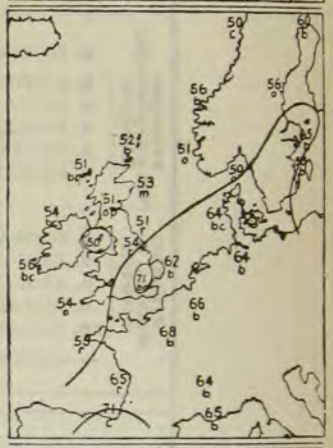
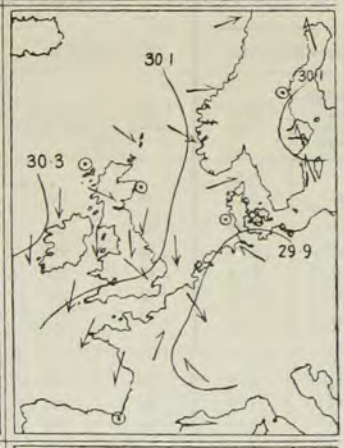
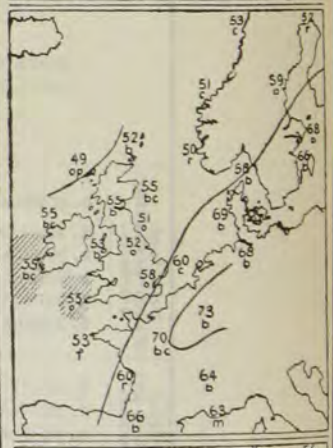
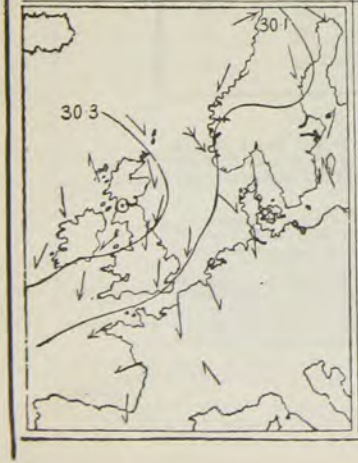
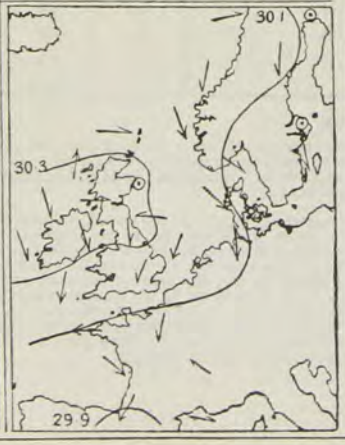
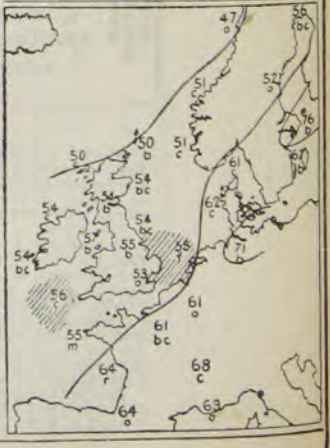
Rainfall has been more than the mean in "England, N.E.", the "Midland Counties", and "England, S.W.", and about equal to it in "Scotland, N.", "England, N.W.", and the "Channel Islands", but less elsewhere.

Bright sunshine shows a striking decrease at Jersey, but a decided increase in most other localities. The percentages of the possible duration varied from 59 in "Ireland, S." to 24 in "England, N.E." and to 12 in the "Channel Islands".

Depressions observed.—As the period commenced a rather extensive low pressure system was shown far to the northward of our Islands, while off the east coast of England and also over the St. George's Channel subsidiary depressions were observed, the barometer being highest over France. A gradual change in the distribution, however, now took place, the highest readings being transferred to our western and north-western coasts, while over the Bay of Biscay and France depressions appeared. The wind, which was at first South-Westerly or Westerly, consequently shifted to the Northward or North-Eastward, and in many parts of eastern England and over the Channel blew freshly or strongly.

E 18998. 350.—7/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, June 23.** *Weather* fair at all but the English stations, where dull, with rain at Holyhead and fog at Liverpool, Scilly, and Prawle Point. Showers falling later in several parts of Ireland and Scotland. *Temperature* risen slightly at our south-eastern and most of the Continental stations, but fallen elsewhere; readings ranging from 60° at Cambridge to 46° at Stornoway. *Wind* light and variable in the north and east of England, but moderate from South-West in most other districts. Subsequently veering to West or North-West in the west of Ireland. *Sea* rather rough off the north of Scotland as well as at Malin Head; moderate to smooth elsewhere. *Barometer* rising at all but our southern and the western French stations. Anticyclone lying over France, large depression off the west of Norway, and shallow subsidiary disturbance over the St. George's Channel. Slight fall taking place over England later, and steady fall in France.	
		**Wednesday, June 24.** *Weather* rainy in the south of Scotland and north of England as well as at Prawle Point and Rochefort, but fair or fine elsewhere. Slight rain over our south-eastern counties at night. *Temperature* risen at our south-eastern and most of the Continental stations, but fallen slightly in the west and north; readings ranging from 71° in London to 50° at Nairn and also in the north-west of England. Subsequently rising to 81° at Cambridge and 82° in London. *Wind* South-Easterly or Southerly at our eastern and most of the Continental stations, but Northerly in the south of Ireland and west of England; light or moderate in force generally. *Sea* moderate to smooth. *Barometer* falling somewhat at the English and French stations, but rising elsewhere. Pressure highest over Baltic, but relatively high to the westward of Ireland, with a small shallow depression over the eastern part of the Channel. Depression moving eastwards later, and barometer rising at all but our south-eastern stations.	
		**Thursday, June 25.** *Weather* dull over England and the western parts of Norway and France, with rain in many places, but fair or fine elsewhere. Some improvement taking place in east and south of England later. *Temperature* risen a little in west and north of our Islands, but fallen in the south-east and south; readings ranging from 61° at Dungeness to 49° at Stornoway. Maxima over England considerably lower than on previous day, the change in London being as much as 24°. *Wind* light from South-West in the north-east of France, and from South-East on the eastern shores of the North Sea, but North-Westerly in Scotland, and Northerly or North-Easterly elsewhere; fresh or strong in force in many parts of England and Ireland. *Sea* rather rough at Valencia and Scilly, moderate to smooth elsewhere. *Barometer* falling a little in Sweden, Denmark, and the Netherlands, but rising in our Islands and France. Pressure equally high over Ireland and the Baltic, with depression of previous day lying over Holland. Depression moving away later, and barometer rising in Netherlands.	
		**Friday, June 26.** *Weather* cloudy over central and southern England, as well as in the west and south of France, but clear or nearly so elsewhere. Sky clearing over England later. *Temperature* fallen several degrees in the south-east; readings ranging from 59° at Leith to 51° at Parsonstown, and 50° at Sumburgh Head and Stornoway. Maxima low for time of year. *Wind* North-Westerly in Scotland and also on the eastern shores of the North Sea, but Northerly or North-Easterly elsewhere; strong in force in the east of England. Subsequently backing to North-West on our western coasts and to South-West in the north of Scotland. *Sea* rather rough off the east of England as well as at Scilly, moderate to smooth elsewhere. *Barometer* rising at all but the Swedish and Danish stations. Large anticyclone, with readings above 30·3 ins., lying over Ireland, Scotland, and the north of England. Slight fall taking place in north of Scotland later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

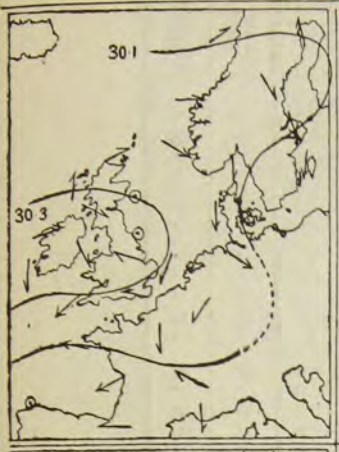
Weather

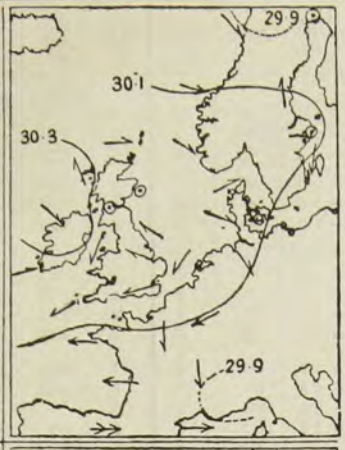
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Saturday, June 27.

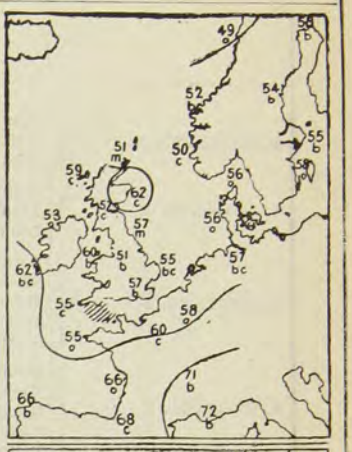
Weather dull in the north of Ireland and west of France, but fair or fine elsewhere.

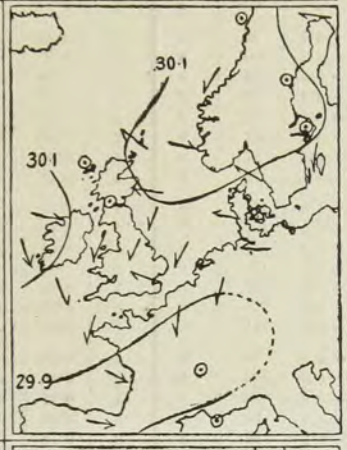
Temperature risen in most places—several degrees over Scotland; readings ranging from 63° at Nairn to 51° at Sumburgh Head and York. Thermometer subsequently rising to 71° at Leith, London, and Cambridge, 72° at York, and 75° at Nairn.

Wind moderate South-Westerly in north of Scotland, but Easterly or North-Easterly on our southern and the French coasts.

Sea rather rough at Prawle Point, moderate to smooth elsewhere.

Barometer rising at all but our extreme western and northern coasts. Anticyclone lying over the greater part of our Islands, with lowest pressures over the Baltic. Slight fall taking place generally later.





Sunday, June 28.

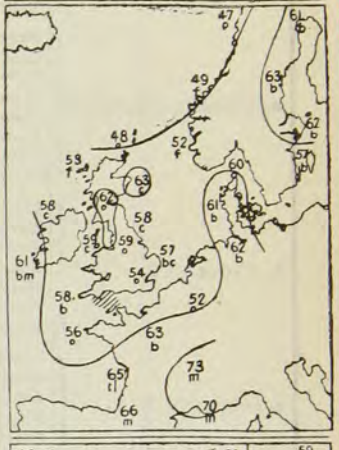
Weather foggy in the north of Scotland and west of Norway and misty in France, but generally fine elsewhere. Sky becoming overcast at all northern stations later, and thunderstorms occurring in France as well as at Jersey.

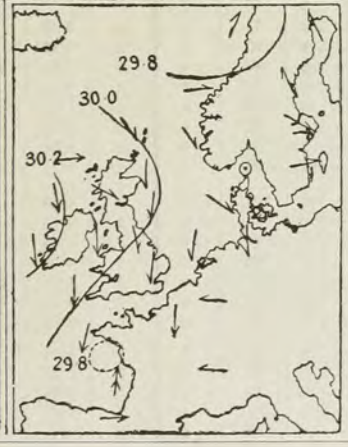
Temperature fallen a few degrees in the north of Scotland, but risen in most other localities; readings ranging from 63° at Aberdeen to 48° in the Shetlands. Highest maxima 72° in London and at Cambridge, and 70° at Loughborough and Liverpool.

Wind light and variable on our northern coasts, but generally North-Westerly in Scandinavia and fresh Easterly or North-Easterly in the south of our Islands and north of France.

Sea rather rough at Prawle Point, slight or smooth elsewhere.

Barometer falling at all but the Norwegian stations. Anticyclone lying over Scotland, the northern parts of England and Ireland, and the west of Norway, with relatively low pressures over the Gulf of Bothnia and South of France. Fall continuing all day and anticyclone breaking up.





Monday, June 29.

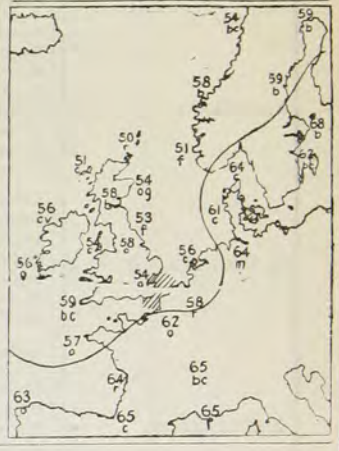
Weather fair in Sweden and fine at some of the Irish and Scotch stations as well as in the south-east of England, but cloudy or overcast elsewhere. Showers falling later at several of our northern stations.

Temperature fallen in most places; readings ranging from 61° at Prawle Point and 60° at Liverpool and Roche's Point to 50° in the Shetlands. Maxima over England rather lower than on previous day.

Wind moderate North-Westerly in Scotland and light variable on the eastern shores of the North Sea, but fresh from North-East or North in most other localities.

Sea moderate to smooth.

Barometer falling at all but our extreme western stations. Pressure highest off west of Ireland, with large but shallow depression over west of Norway and smaller disturbance near Rochefort. Slight rise taking place in west and north later.



Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 101 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	56	42	54·4	44·6	49·2	− 3·3	50	0	3	0·23	−0·26	*	*
	Stornoway	68	39	59·3	45·0	51·7	− 2·0	68	0	5	1·02	+0·31	45	36
	Wick	65	35	60·1	43·7	51·3	− 2·4	65	0	3	0·25	−0·15	*	*
1. SCOTLAND, E.	Nairn	75	43	64·4	48·3	55·8	− 0·2	97	0	3	0·21	−0·29	*	*
	Aberdeen	69	39	62·4	45·9	53·6	− 2·8	81	0	1	0·07	−0·41	56	46
	Leith	71	43	63·6	48·3	55·4	− 1·9	94	0	4	0·28	−0·20	*	*
2. ENGLAND, N.E.	Alnwick Castle	64	38	58·1	47·1	52·2	− 4·4	71	0	3	0·38	?	*	*
	Shields	62	41	58·4	46·1	51·8	− 5·7	69	0	3	0·81	+0·33	*	*
	Scarborough ℜ	61	44	57·2	49·5	53·1	− 4·6	78	0	4	1·34	+0·80	*	*
	York	72	38	63·1	48·0	55·0	− 4·1	91	0	2	0·97	+0·41	28	24
	Spurn Head	64	47	57·7	50·3	53·7	− 4·3	82	0	4	0·17	?	*	*
3. ENGLAND, E.	Hillington ℜ	81	42	65·6	49·4	56·9	− 2·2	104	0	3	0·35	−0·19	37	32
	Yarmouth	66	50	61·9	52·6	56·9	− 2·6	104	0	1	0·01	−0·51	*	*
	Geldeston	73	43	63·6	50·5	56·6	− 2·6	102	0	0	—	−0·48	48	42
	Cambridge	81	39	68·4	48·9	58·0	− 3·2	112	0	2	0·21	−0·33	46	40
	Rothamsted	78	43	65·7	48·0	56·2	− 4·9	99	0	2	0·13	−0·44	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	71	35	64·3	47·1	55·1	− 4·5	92	0	2	0·94	+0·32	*	*
	Loughborough	70	38	66·0	48·7	56·8	− 3·8	104	0	3	0·51	−0·04	*	*
	Leicester	72	42	66·9	49·2	57·4	− 3·5	108	0	3	0·54	+0·03	33	28
	Cheadle ℜ	67	40	62·1	47·7	54·4	− 4·5	87	0	2	1·09	?	*	*
	Churchstoke ℜ	69	36	61·9	44·9	52·8	− 5·6	76	0	2	1·13	?	50	43
	Hereford ℜ	72	40	66·3	48·8	56·9	− 3·3	104	0	2	0·69	+0·19	*	*
	Cirencester	68	41	63·7	48·9	55·8	− 3·5	97	0	3	0·22	−0·34	45	39
	Oxford	73	43	64·9	50·3	57·1	− 3·1	106	0	3	0·41	−0·14	44	38
5. ENGLAND, S.	London†	82	46	69·1	52·4	60·2	− 1·9	127	0	1	0·14	−0·38	36	32
	Marlborough ℜ	72	42	64·5	49·3	56·4	− 2·2	101	0	3	0·11	−0·44	44	39
	Strathfield Turgiss ℜ	80	44	71·0	50·4	60·0	+ 0·5	126	0	1	0·10	−0·42	*	*
	Dungeness	70	48	65·6	54·0	59·4	− 0·8	122	0	0	—	?	*	*
	Hastings (St. Leonard's)	77	50	68·0	53·4	60·2	+ 0·6	127	0	1	0·02	−0·38	50	44
	Southampton	74	47	67·9	51·7	59·2	− 0·9	120	0	2	0·12	−0·36	31	27
	Hurst Castle	70	47	64·6	52·1	57·9	− 1·5	111	0	2	0·11	−0·37	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	70	40	60·8	46·5	53·2	− 2·9	78	0	4	0·24	?	*	*
	Glasgow	77	42	66·3	48·3	56·7	0·0	103	0	2	0·14	−0·71	46	38
	Ardrossan	65	44	61·0	47·7	53·9	− 2·8	85	0	2	0·11	−0·54	*	*
	Silloth (Cumberland)	73	38	66·8	45·8	55·6	− 3·3	95	0	3	0·33	−0·26	56	47
	Douglas (Isle of Man)	70	38	64·0	46·3	54·5	− 2·2	88	0	2	0·19	−0·25	60	51
7. ENGLAND, N.W.	Newton Reigny (Penrith)	71	35	62·3	43·4	52·2	− 5·3	71	0	3	0·47	?	50	42
	Barrow-in-Furness	67	44	61·6	49·0	54·9	− 3·3	90	0	2	0·25	?	*	*
	Stonyhurst	72	42	63·7	46·3	54·4	− 3·3	87	0	2	1·33	+0·48	45	38
	Blackpool ℜ	70	38	62·1	46·2	53·6	− 5·1	81	0	2	0·40	−0·16	40	34
	Manchester	71	42	64·2	47·6	55·4	− 3·9	94	0	2	1·54	+0·84	*	*
	Liverpool Obs' (Bidston)	70	45	62·3	50·3	55·9	− 3·4	97	0	2	0·56	+0·03	*	*
	Llandudno ℜ	64	46	60·0	50·0	54·7	− 4·5	89	0	2	0·20	−0·30	50	43
	Holyhead	67	48	59·0	50·4	54·4	− 3·6	87	0	2	0·21	−0·26	*	*
8. ENGLAND, S.W.	Llandovery	73	40	66·9	47·7	56·7	− 2·8	103	0	2	1·20	?	*	*
	Pembroke	67	49	60·6	50·6	55·3	− 3·2	93	0	1	0·23	−0·25	67	58
	Arlington (N. Devon)	70	45	62·6	48·9	55·3	− 4·2	93	0	2	1·64	?	*	*
	Cullompton ℜ	74	46	66·9	50·4	58·1	− 2·2	113	0	3	0·96	?	40	35
	Falmouth	66	50	61·8	51·9	56·5	− 2·9	102	0	2	1·26	+0·61	46	41
	Plymouth	75	50	65·8	53·3	59·1	− 1·2	120	0	3	0·92	+0·43	43	38
	Prawle Point	66	49	61·0	51·7	56·0	− 2·1	98	0	2	0·35	?	*	*
9. IRELAND, N.	Malin Head	59	46	56·7	48·9	52·5	− 3·3	74	0	4	0·06	?	*	*
	Londonderry	72	39	65·0	45·5	54·6	− 2·6	88	0	3	0·05	−0·64	*	*
	Mullaghmore	66	45	59·3	49·4	54·0	− 4·6	84	0	2	0·12	?	*	*
	Belmullet	66	48	59·0	49·7	54·0	− 3·7	84	0	2	0·07	?	*	*
	Markree Castle	72	32	61·3	40·4	50·1	− 8·6	63	4	0	—	−0·70	40	34
	Brookeborough	69	35	64·1	41·7	52·1	− 6·6	72	1	0	—	?	*	*
	Armagh	72	37	64·5	43·7	53·4	− 5·2	80	0	1	0·04	−0·54	55	47
	Donaghadee	66	37	60·6	47·0	53·3	− 3·9	79	0	2	0·21	−0·31	*	*
	Edgeworthstown	70	39	65·3	43·6	53·7	− 4·8	82	0	1	0·06	?	*	*
10. IRELAND, S.	Dublin	67	44	63·8	48·0	55·4	− 3·2	94	0	1	0·32	−0·18	60	52
	Parsonstown	71	38	65·3	46·1	55·0	− 3·1	91	0	1	0·19	−0·41	63	54
	Kilkenny	69	42	64·4	45·0	54·0	− 4·5	84	0	1	0·24	?	*	*
	Waterford	71	43	66·3	45·7	55·3	− 4·2	93	0	1	0·22	−0·38	*	*
	Roche's Point	68	47	65·0	48·3	55·1	− 3·6	99	0	1	0·02	−0·75	*	*
	Valencia	68	45	62·9	48·4	55·2	− 2·5	92	0	1	0·04	−0·77	81	70
	Killarney	72	37	64·5	45·1	54·1	− 4·4	85	0	1	0·22	?	*	*
	Foynes	71	44	64·9	46·6	55·0	− 2·6	91	0	0	—	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	61	52	58·7	53·1	55·7	− 3·2	96	0	1	0·72	+0·28	*	*
	Jersey (Noirmont)	68	53	63·4	54·0	58·4	− 1·5	115	0	3	0·09	−0·31	13	12

Stations marked ℜ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 27.] *New Series.* WEEK ENDING MONDAY, 6TH JULY, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 108.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	72	42	59·2	47·9	53·2	0 (average).	78	581	0	528
	1. SCOTLAND, EAST	79	42	69·3	50·7	59·4*	2 above.	122	913	0	565
	2. ENGLAND, N.E.	76	41	67·6	51·2	58·9	0 (average).	118	935	0	455
	3. ENGLAND, EAST	80	41	70·2	49·5	59·1	2 below.	120	1143	0	559
	4. MIDLAND COUNTIES	80	37	71·9	47·8	59·0	2 below.	119	1126	0	558
	5. ENGLAND, SOUTH	81	44	71·8	51·6	61·0	1 above.	133	1266	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	69	43	62·2	49·5	55·4	2 below.	94	848	0	453
	7. ENGLAND, N.W.	71	42	64·4	51·2	57·3	2 below.	107	925	0	425
	8. ENGLAND, S.W.	76	37	66·5	50·0	57·7	3 below.	110	1112	0	331
	9. IRELAND, NORTH	76	40	63·9	50·5	56·8	2 below.	104	970	0	407
	10. IRELAND, SOUTH	72	39	65·1	50·9	57·5	2 below.	109	1136	0	328
	— CHANNEL ISLANDS	71	50	63·2	52·5	57·5	3 below.	109	1204	0	106

	DISTRICTS. (See p. 108.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	5	0 (average).	130	16·3	17	677	14	28
	1. SCOTLAND, EAST	1	2	3 less.	93	11·2	61	784	50	32
	2. ENGLAND, N.E.	1	less than ½	5 less.	94	10·6	56	572	48	24
	3. ENGLAND, EAST	0	less than ½	6 less.	91	11·7	66	863	58	36
	4. MIDLAND COUNTIES	0	less than ½	5 less.	98	12·7	64	774	56	32
	5. ENGLAND, SOUTH	1	1	5 less.	89	13·3	57	828	51	35
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	4	7	0 (average).	109 †	19·9	46	729	39	30
	7. ENGLAND, N.W.	1	3	4 less.	99	14·1	54	695	46	29
	8. ENGLAND, S.W.	1	less than ½	6 less.	105	17·7	56	830	50	35
	9. IRELAND, NORTH	3	4	3 less.	110	15·2	21	711	18	30
	10. IRELAND, SOUTH	2	5	2 less.	106	20·2	22	816	19	34
	— CHANNEL ISLANDS	1	less than ½	4 less.	113	14·4	57	1007	51	42

General Remarks.

Weather has been generally fine and bright over the greater part of the Kingdom, but rather unsettled and showery in the north and west of Scotland and Ireland. Some thunder and lightning, however, passed over the extreme south of England towards the close of the week, while during the afternoon of the 3rd a heavy but very local shower was experienced at Newton Reigny.

Temperature has been 1° or 2° above the mean in "England, S." and "Scotland, E.", and about equal to it in "Scotland, N." and "England, N.E.", but in all other districts it has continued below, the deficit varying from 1° to 3°. The maxima, which were recorded on different days in the various parts of the country, ranged from 80° or 81° over central, southern, and eastern England, and 79° in "Scotland, E.", to 69° in "Scotland, W." The minima were registered at most places either on the 1st or 2nd, when the thermometer fell to 37° in the "Midland Counties" and "England, S.W.", to 39° in "Ireland, S.", and to between 40° and 44° in all other districts except the "Channel Islands", when the lowest reading was 50.

Rainfall has been about equal to the mean in the west and north of Scotland, but less elsewhere. Over the greater part of England the fall was scarcely appreciable.

Bright sunshine shows a great decrease over Ireland and the north of Scotland, but an increase in most other districts. The percentages of the possible duration varied from 58 in "England, E." and 56 in the "Midland Counties", to 18 or 19 in Ireland, and to 14 in the north of Scotland.

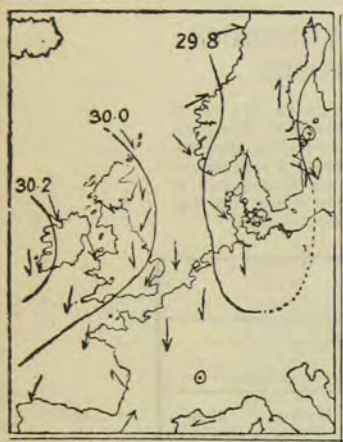
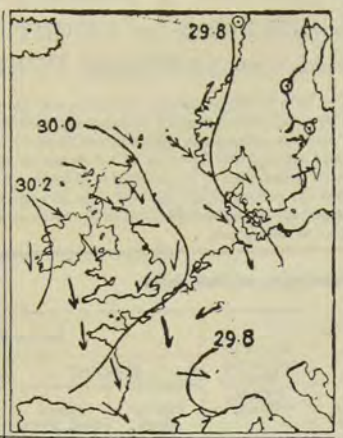
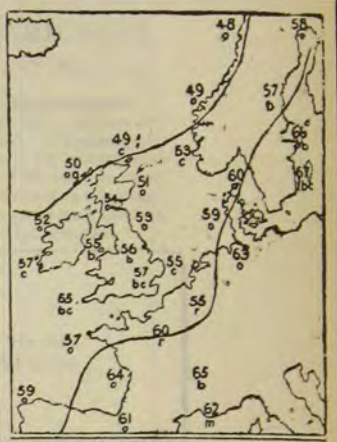
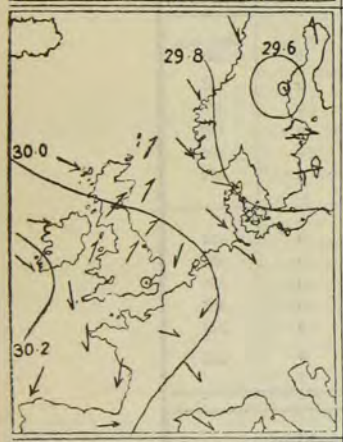
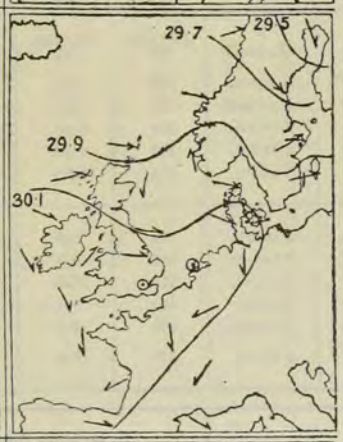
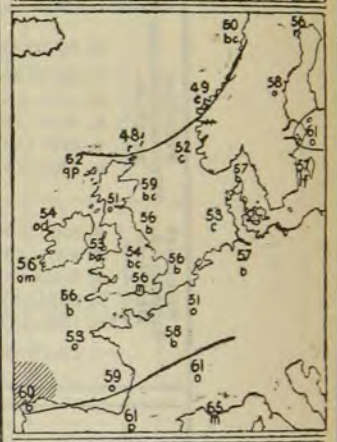
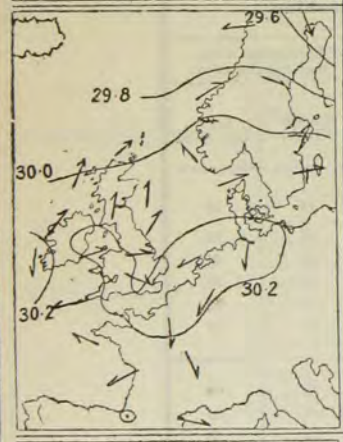
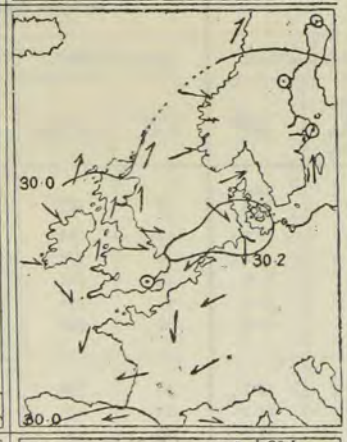
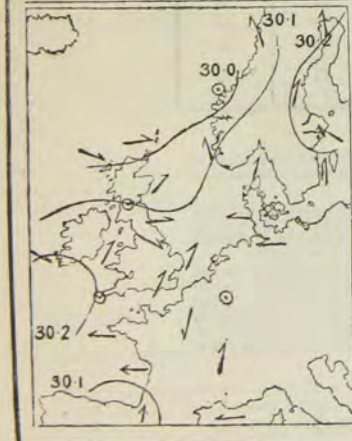
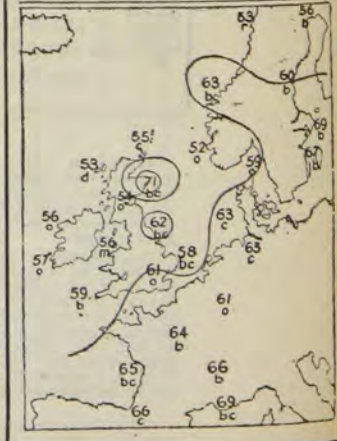
Depressions observed.—The distribution of pressure over our Islands has been anticyclonic, and the only depressions observed were some far to the northward of Scotland, moving from the westward. At the close of the period, however, disturbances had begun to appear off the west of Ireland, causing the wind, which had previously been light from the Westward or North-Westward, to back to South in the extreme west and north, and to increase to the force of a fresh gale at Valencia.

* The corresponding value for the week ending June 15th should have been "55·0" instead of "53·0". The accumulated temperature figures for "Scotland, E." have consequently been altered somewhat.

† This value has been altered slightly owing to the receipt of further information from Ardrossan.

E 18183. 350.—7/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, June 30.** *Weather* fine at most of the English stations, but cloudy or overcast elsewhere, with rain at Charleville and Paris. Showers falling later on our extreme north and north-west coasts. *Temperature* fallen a few degrees in the west and north, but risen a little in the sout-east; readings ranging from 62° at Prawle Point to 49° in the Shetlands. Maxima rather low for time of year, highest being 68° at Cambridge and 67° at Hurst Castle and in London. *Wind* North-Westerly in Scotland and on the eastern shores of the North Sea, but Northerly or North-Easterly elsewhere; moderate to fresh in force generally. *Sea* rather rough at Malin Head and Scilly; moderate to smooth elsewhere. *Barometer* rising a little in most parts of our Islands and France, but falling in Scandinavia and Denmark. Anticyclone lying off the west of Ireland, with large area of low pressure over Sweden and Denmark.	
		**Wednesday, July 1.** *Weather* fine over England and the east of Scotland, but cloudy elsewhere, with rain at Sumburgh Head, passing showers at Stornoway, and drizzle at Mullaghmore. *Temperature* fallen at most of the Continental stations, but changed irregularly in our Islands; readings ranging from 59° at Hurst Castle and Dungeness to 48° in the Shetlands. *Wind* moderate South-Westerly or Westerly on our northern coasts and strong North-Westerly on eastern shores of North Sea, but light Northerly or North-Easterly at our southern and the French stations. *Sea* moderate to smooth. *Barometer* falling a little in Scotland and Scandinavia, but rising elsewhere. Anticyclone lying off south of Ireland, with well-marked depression over Sweden, and subsidiary disturbance to northward of Scotland. Rise taking place on our northern coasts later.	
		**Thursday, July 2.** *Weather* dull in the extreme west of our Islands, and also in the south of France, but fair or fine elsewhere. *Temperature* risen in most places; readings ranging from 63° at Aberdeen and 62° at Dungeness to 52° at Belmullet. Highest maxima 76° at Loughborough, 75° at Nairn, and 74° at Hurst Castle and Cambridge. *Wind* light to fresh from South-West on our northern coasts, but variable in the south of our Islands, and moderate Easterly in the west of France. *Sea* rather rough off the extreme north of Scotland, slight to smooth elsewhere. *Barometer* rising at all but our extreme western stations. Anticyclone lying over the Netherlands, the north of France, and south-east of England, with lowest pressure in the north of Scandinavia. Slight fall taking place in all parts of our Islands and France.	
		**Friday, July 3.** *Weather* dull over Ireland and the inland parts of England, but fair or fine elsewhere. Thunderstorm occurring at Aberdeen later, and heavy shower falling at Newton Reigny. *Temperature* risen in most places; readings ranging from 71° at Aberdeen to 52° at Donaghadee. Thermometer subsequently rising to 75° at Oxford, 76° at Aberdeen and in London, and 79° at Nairn. *Wind* light from South-West or West in most parts of our Islands, but Easterly in France and the Netherlands. Shifting to North-West in west of France later. *Sea* slight or smooth. *Barometer* falling a little on our extreme north and north-west coasts, but rising elsewhere. Areas of highest pressure over Sweden and the extreme south-west of our Islands, with a large area of low readings to the northward of Scotland. Slight fall taking place generally later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

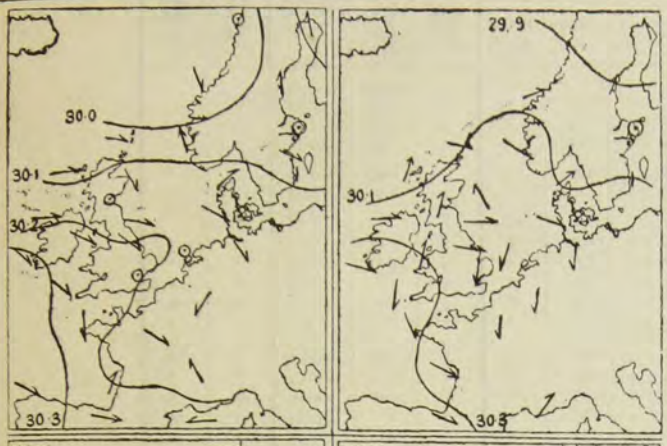
Weather

During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.



Saturday, July 4.

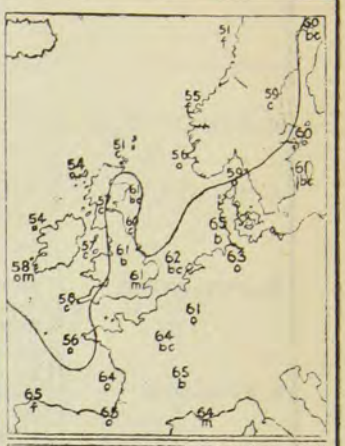
Weather dull on our extreme western and northern coasts, as well as in Scandinavia and the south-west of France, but generally fine elsewhere. A little rain falling in north of Scotland later.

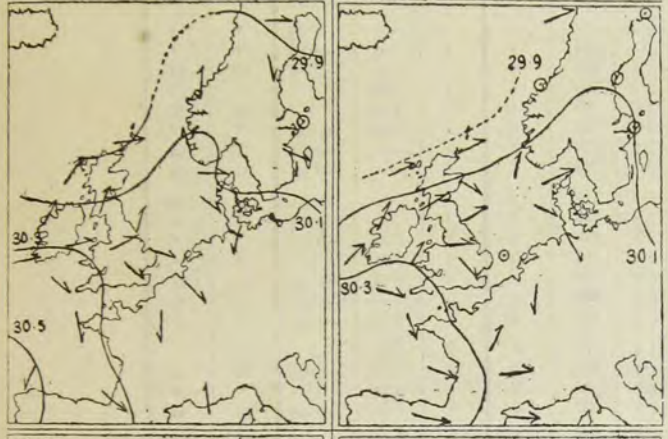
Temperature fallen several degrees in the north-east of Scotland; readings ranging from 63° at Prawle Point and Hurst Castle to 51° in the Shetlands. Highest maxima 78° at Cambridge and 76° at Loughborough, London, and Oxford.

Wind moderate from South-West and West on our northern coasts and Southerly in the south of Norway, but light from North over the Channel and north of France.

Sea slight or smooth generally.

Barometer falling a little over Scandinavia, Denmark, and the Netherlands, but rising elsewhere. Anticyclone, with readings above 30·3 ins., forming off our south-west coasts; pressure still lowest to the northward of our Islands.





Sunday, July 5.

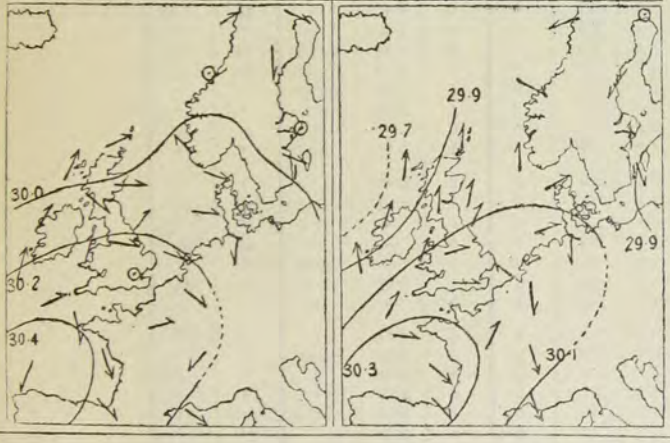
Weather dull and unsettled in the west of Ireland and north of Scotland, but generally fine elsewhere. Slight rain falling later at several of our western and northern stations.

Temperature risen slightly; readings ranging from 67° at Prawle Point to 53° at Sumburgh Head. Highest maxima 79° in London and at Cambridge, 77° at Loughborough, and 75° at Oxford.

Wind fresh or strong South-Westerly on our north and north-west coasts, but light North-Westerly or Northerly at our southern and the French stations.

Sea rather rough at Mullaghmore, moderate to smooth elsewhere.

Barometer falling west and north, but rising elsewhere. Central portion of well-marked anticyclone lying off north-west of Spain, with large area of low pressure to northward of Scotland. Fall extending later to all parts of our Islands.



Monday, July 6.

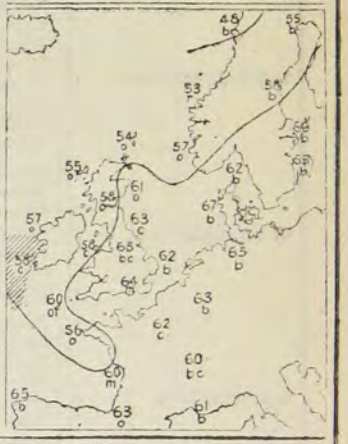
Weather fine over the greater part of England as well as at the Continental stations, but cloudy or overcast elsewhere, with showers at Mullaghmore. Rain falling later on our western and northern coasts generally.

Temperature changed rather irregularly; readings ranging from 65° at York to 54° in the Shetlands. Thermometer subsequently rising to 76° at Spurn Head and Leith, 77° at Loughborough, 80° at Cambridge, and 81° in London.

Wind light North-Westerly on our southern and most of the French coasts, but South-Westerly elsewhere; fresh in force in the west, but light in the east. Subsequently increasing to moderate or fresh gale in Ireland and the west of Scotland.

Sea rough at Valencia; moderate to smooth elsewhere.

Barometer rising at all but our western stations. Anticyclone lying over Bay of Biscay, with lowest pressures over the north of Norway. Rather deep depression skirting our western coasts later, and fall of barometer taking place in all parts of our Islands.



Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 105 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	59	44	56·4	47·0	51·4	− 0·6	66	0	6	0·62	+0·14	*	*
	Stornoway	61	45	58·7	49·3	53·7	− 0·4	82	0	6	0·62	−0·08	17	14
	Wick	72	42	62·6	47·4	54·5	− 0·2	88	0	5	0·30	−0·13	*	*
1. SCOTLAND, E.	Nairn	79	44	68·6	50·9	59·1	+ 2·2	120	0	1	0·03	−0·50	*	*
	Aberdeen	76	42	69·3	49·4	58·7	+ 1·8	117	0	3	0·63	+0·11	61	50
	Leith	76	45	70·0	51·9	60·4	+ 2·1	129	0	0	—	−0·50	*	*
2. ENGLAND, N.E.	Alnwick Castle	72	41	67·4	51·9	59·1	+ 1·9	120	0	2	0·17	?	*	*
	Shields	72	43	67·7	50·4	58·5	+ 0·3	116	0	2	0·03	−0·55	*	*
	Scarborough ℔	75	45	68·3	52·7	60·0	+ 1·3	126	0	0	—	−0·63	*	*
	York	75	44	70·9	48·4	58·9	− 1·5	118	0	0	—	−0·54	56	48
	Spurn Head	76	48	63·7	52·7	57·8	− 1·4	111	0	0	—	?	*	*
3. ENGLAND, E.	Hillington ℔	80	42	72·9	47·3	59·2	− 0·7	120	0	1	0·03	−0·57	64	55
	Yarmouth	67	46	63·1	51·9	57·1	− 3·5	106	0	0	—	−0·56	*	*
	Geldeston	75	41	68·3	46·2	56·5	− 3·6	102	0	1	0·01	−0·51	67	59
	Cambridge	80	46	74·4	50·1	61·4	− 0·8	136	0	0	—	−0·54	68	60
	Rothamsted	79	46	72·3	51·8	61·3	− 0·5	135	0	0	—	−0·60	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	80	43	74·4	47·0	59·7	− 0·9	124	0	0	—	−0·64	*	*
	Loughborough	77	44	73·4	48·4	60·0	− 1·4	126	0	0	—	−0·54	*	*
	Leicester	78	43	74·0	48·3	60·3	− 1·6	128	0	0	—	−0·54	55	47
	Cheadle ℔	72	45	67·7	48·5	57·4	− 2·3	108	0	1	0·01	?	*	*
	Churchstoke ℔	72	37	69·4	44·8	56·2	− 3·0	99	0	1	0·25	?	62	53
	Hereford ℔	79	43	73·9	48·3	60·2	− 0·8	127	0	1	0·03	−0·47	*	*
	Cirencester	75	44	70·4	46·0	57·4	− 2·7	108	0	0	—	−0·60	72	63
	Oxford	76	48	72·3	51·1	61·0	+ 0·1	133	0	0	—	−0·56	67	59
5. ENGLAND, S.	London†	81	47	74·1	52·7	62·7	− 0·1	145	0	0	—	−0·53	49	43
	Marlborough ℔	76	46	72·5	49·2	60·0	+ 0·2	126	0	0	—	−0·59	54	48
	Strathfield Turgiss ℔	79	46	75·7	49·0	61·4	+ 1·0	136	0	1	0·02	−0·51	*	*
	Dungeness	72	44	67·1	50·3	58·1	− 1·7	113	0	1	0·01	?	*	*
	Hastings (St. Leonard's)	75	49	68·9	54·1	61·0	+ 0·7	133	0	2	0·37	−0·03	61	54
	Southampton	81	52	74·9	53·2	63·3	+ 2·4	149	0	0	—	−0·52	64	57
	Hurst Castle	74	50	69·7	53·0	60·8	+ 0·8	132	0	1	0·01	−0·49	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	64	46	60·3	51·3	55·5	− 1·1	95	0	7	0·84	?	*	*
	Glasgow	69	43	64·9	48·8	56·3	− 1·0	100	0	4	0·29	−0·46	32	27
	Ardrossan	63	44	60·3	49·7	54·6	− 2·7	88	0	3	0·53	−0·10	*	*
	Douglas (Isle of Man)	69	43	63·3	48·2	55·2	− 1·7	92	0	1	0·92	+0·44	59	50
7. ENGLAND, N.W.	Newton Reigny (Penrith)	69	42	65·8	47·3	55·9	− 1·9	97	0	2	0·71	?	52	44
	Barrow-in-Furness	63	49	61·3	52·7	56·7	− 2·0	103	0	1	0·29	?	*	*
	Stonyhurst	70	47	66·3	52·5	58·9	+ 0·3	118	0	1	0·24	−0·64	57	49
	Blackpool ℔	66	45	62·4	50·7	56·1	− 3·3	99	0	1	0·24	−0·38	53	45
	Manchester	71	46	68·1	49·6	58·2	− 1·6	113	0	1	0·14	−0·58	*	*
	Liverpool Obsy (Bidston)	70	50	64·9	52·6	58·3	− 1·6	114	0	1	0·49	−0·11	*	*
	Llandudno ℔	68	47	65·1	53·0	58·6	− 1·3	116	0	0	—	−0·54	53	46
	Holyhead	65	46	61·4	51·0	55·8	− 2·9	97	0	1	0·23	−0·24	*	*
8. ENGLAND, S.W.	Llandovery	76	37	70·9	46·1	57·6	− 2·5	109	0	2	0·03	?	*	*
	Pembroke	63	47	59·6	50·9	55·0	− 4·2	91	0	1	0·01	−0·47	57	50
	Arlington (N. Devon)	68	40	64·0	48·3	55·6	− 4·8	95	0	0	—	?	*	*
	Cullompton ℔	74	40	71·3	49·2	59·5	− 1·5	123	0	0	—	?	54	48
	Falmouth	66	48	63·6	50·8	56·8	− 3·2	104	0	0	—	−0·66	58	52
	Plymouth	75	45	70·1	52·6	60·7	− 0·5	131	0	1	0·01	−0·53	54	48
	Prawle Point	73	49	65·9	51·9	58·4	− 0·5	115	0	0	—	?	*	*
9. IRELAND, N.	Malin Head	64	48	60·3	51·3	55·5	− 0·7	95	0	3	0·24	?	*	*
	Londonderry	76	47	68·1	50·7	58·8	+ 0·8	118	0	3	0·29	−0·41	*	*
	Mullaghmore	66	51	61·6	53·1	57·1	− 2·1	106	0	4	0·41	?	*	*
	Belmullet	60	50	58·0	52·4	55·0	− 2·2	91	0	6	0·81	?	*	*
	Markree Castle	70	49	63·7	50·9	56·9	− 2·5	104	0	4	0·48	−0·22	17	15
	Brookeborough	70	42	65·7	49·1	56·8	− 2·7	104	0	2	0·49	?	*	*
	Armagh	71	40	67·1	48·4	57·1	− 2·3	106	0	3	0·11	−0·53	25	21
	Donaghadee	74	44	64·1	50·6	56·9	− 0·6	104	0	4	0·29	−0·25	*	*
	Edgeworthstown	72	40	66·7	48·1	56·8	− 2·5	104	0	1	0·25	?	*	*
10. IRELAND, S.	Dublin	72	45	67·0	51·7	58·8	− 0·6	118	0	1	0·03	−0·50	25	22
	Parsonstown	69	40	65·1	49·3	56·7	− 2·1	103	0	1	0·38	−0·25	19	16
	Kilkenny	71	40	65·1	49·4	56·7	− 2·8	103	0	2	0·21	?	*	*
	Waterford	71	39	67·2	48·1	57·0	− 3·1	105	0	2	0·74	+0·14	*	*
	Roche's Point	67	49	65·1	51·4	57·8	− 2·4	111	0	2	0·36	−0·36	*	*
	Valencia	67	47	63·0	52·3	57·3	− 1·0	107	0	3	0·86	+0·06	21	18
	Killarney	68	42	64·3	51·8	57·6	− 1·4	109	0	2	0·50	?	*	*
	Foynes	66	50	64·6	52·9	57·9	− 0·6	111	0	2	0·54	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	51	61·0	53·0	56·7	− 3·0	103	0	2	0·03	−0·42	*	*
	Jersey (Noirmont)	71	50	65·4	52·0	58·2	− 2·5	113	0	0	—	−0·46	57	51

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Note.—The observations at Silloth by the Rev. F. Redford, have now ceased.

Errata.—The "Highest Temperature Observed" at Ardrossan for the week ending June 29th should have been "75" instead of "65," and the "Accumulated Heat for the Week" "88."

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 28.] *New Series.* WEEK ENDING MONDAY, 13TH JULY, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 112.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	8	44	58·8	48·4	53·2	1 below.	78	659	0	528
	1. SCOTLAND, EAST	73	44	65·9	50·5	57·7	0 (average).	110	1023	0	565
	2. ENGLAND, N.E.	75	44	67·4	51·9	59·1	0 (average).	120	1055	0	455
	3. ENGLAND, EAST	83	43	70·5	51·9	60·5	1 below.	130	1273	0	559
	4. MIDLAND COUNTIES	82	39	70·7	48·6	58·9	2 below.	118	1244	0	558
	5. ENGLAND, SOUTH	80	41	69·8	51·3	59·9	2 below.	125	1391	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	66	40	59·9	49·9	54·6	3 below.	88	936	0	453
	7. ENGLAND, N.W.*	72	42	63·1	50·3	56·3	3 below.	100	1025	0	425
	8. ENGLAND, S.W.	75	33	64·4	49·1	56·2	5 below.	99	1211	0	331
	9. IRELAND, NORTH	67	41	61·5	49·3	55·0	4 below.	91	1061	0	407
	10. IRELAND, SOUTH *	72	41	62·7	50·3	56·1	3 below.	99	1235	0	328
	— CHANNEL ISLANDS	74	51	64·3	53·9	58·7	2 below.	117	1321	0	106

	DISTRICTS. (See p. 112.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	9	4 more.	136	17·2	29	706	24	28
	1. SCOTLAND, EAST	4	2	4 less.	97	11·4	52	836	43	33
	2. ENGLAND, N.E.	2	2	4 less.	96	10·8	46	618	40	25
	3. ENGLAND, EAST	3	4	2 less.	94	12·1	51	914	45	37
	4. MIDLAND COUNTIES	1	1	5 less.	99	12·8	56	830	50	33
	5. ENGLAND, SOUTH	2	1	4 less.	91	13·4	56	884	50	35
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	8	1 less.	114	20·7	40	769	34	30
	7. ENGLAND, N.W.*	3	4	3 less.	102	14·5	60	755	51	30
	8. ENGLAND, S.W.	2	4	2 less.	107	18·1	58	888	52	36
	9. IRELAND, NORTH	5	10	3 more.	115	16·2	30	741	26	29
	10. IRELAND, SOUTH *	3	5	2 less.	109	20·7	39	855	34	34
	— CHANNEL ISLANDS	3	4	2 less.	116	14·8	66	1073	60	43

General Remarks.

Weather has been rather dull, unsettled, and showery over the greater part of Ireland and Scotland, but in England, with the exception of some local showers in the south-east towards the end of the period, it has continued fine and bright.

Temperature has about equalled the mean for the season in "Scotland, E." and "England, N.E.", but in all other districts it has been below, the deficit varying from 1° or 2° in the north, east, and south, to between 3° and 5° in the west and south-west. The maxima, which were generally recorded on the 10th, ranged from 66° to 73° in Scotland, from 67° to 72° in Ireland, and from 80° to 83° over southern, central, and eastern England. The minima were registered either on the 9th or 13th, when the thermometer fell as low as 33° in "England, S.W." (at Llandovery), to 39° in the "Midland Counties", and to between 40° and 44° in all other districts except the "Channel Islands", where 51° was the lowest reading.

Rainfall has been rather more than the mean in "Scotland, N." and "Ireland, N.", but less in all other districts. A very heavy fall occurred in the extreme west of Ireland on the night of the 10th.

Bright sunshine does not differ materially from that recorded for the previous week, the percentages of the possible duration varying from 60 in the "Channel Islands" and between 50 and 52 in most parts of England, to 26 in "Ireland, N." and 24 in "Scotland, N."

Depressions observed.—During nearly the whole of this period the barometer was highest over the southern and south-eastern parts of our area, with depressions moving in a north-easterly direction some distance to the north-westward and northward of Scotland. Local irregularities of pressure were occasionally observed over our Islands, but the only depression worthy of notice was a well-defined subsidiary which passed north-eastwards over our extreme north-west coasts on the 11th. Fresh or strong Southerly to South-Westerly winds were very general on our western and northern coasts, but in the south and east, light or moderate South-Westerly to Westerly breezes were most prevalent.

* The accumulated values in these districts are liable to alteration owing to the non-arrival of the Returns from Llandudno and Waterford.

E 18269. 350.—7/85. Wt. 58. F. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

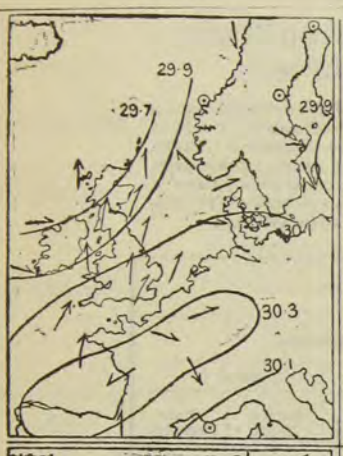
Weather

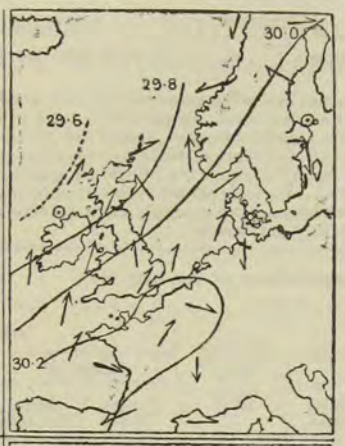
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Tuesday, July 7.

Weather dull and rainy at several of our western and northern stations, but fair or fine elsewhere. Some improvement taking place in Ireland later.

Temperature fallen a few degrees in most places; readings varying from 67° at Nairn and 65° at Yarmouth to 54° in the Shetlands. Highest maxima 73° at Nairn and 72° in London and at Cambridge.

Wind light and variable in Sweden and the south of France, but generally South-Westerly elsewhere; fresh or strong in force on our western and northern coasts.

Sea rough in the west; slight or smooth in the south-east and east.

Barometer falling in our Islands, but rising at most of the Continental stations. Anticyclonic band, with readings exceeding 30·3 inches, lying over the Bay of Biscay and north of France, with large and rather deep depression off the north-west of Scotland. Slight rise taking place in Ireland during afternoon, followed by fresh fall in evening.

Wednesday, July 8.

Weather fair generally, but dull in Norway, with rain at Skudesnaes. Rain falling later at one or two of the extreme northern and north-western stations.

Temperature fallen a few degrees on our western and northern coasts, but risen elsewhere. Maxima rather lower than on previous day.

Wind Southerly on eastern shores of North Sea, but South-Westerly or Westerly in our Islands and France; moderate or fresh in force generally.

Sea rough in the west; slight or smooth elsewhere.

Barometer falling at all but the western stations. Anticyclone lying over southern part of Bay of Biscay and south-west of France, with depression off the north of Scotland. Depression subsequently moving away northwards and rise of barometer becoming general.

Thursday, July 9.

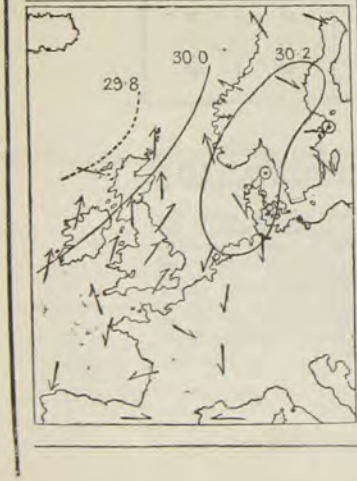
Weather dull in Ireland and Scotland, with drizzling rain at Stornoway, but generally fine elsewhere. Improvement taking place at Irish and Scotch stations later.

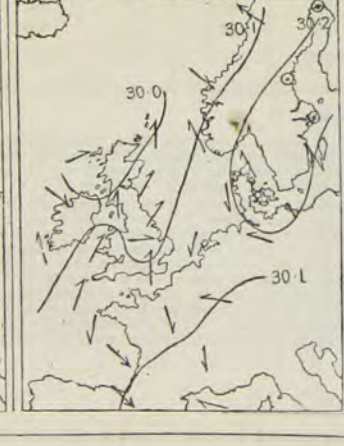
Temperature fallen in most places; readings ranging from 61° at Prawle Point, Cambridge, Yarmouth, and Jersey, to 52° at Stornoway. Subsequently rising to 74° at Cambridge and 75° in London.

Wind fresh or strong from South-West or South on our western and northern coasts, but light from North-West in the south, and moderate from North-East over the Bay of Biscay.

Sea rough at our extreme western and north-western stations, but moderate to smooth elsewhere.

Barometer falling slightly on the west coasts of Ireland and Scotland, but rising in most other localities. Anticyclone, with readings above 30·2 ins., lying over France and the south of England, and depression moving in a north-easterly direction outside our extreme north-west coasts. Slight fall taking place in south of England later.





Friday, July 10.

Weather dull on our western and northern coasts, with rain at Stornoway and Malin Head, but generally fine elsewhere. Heavy rain falling in west of Ireland at night.

Temperature risen generally; readings ranging from 67° at Cambridge to 52° at Stornoway. Subsequently reaching 80° in London and 81° at Loughborough and Cambridge.

Wind fresh or strong from South in Ireland and Scotland, but light from South-East over England, and moderate from East in the west of France. Veering to South-West and West in Ireland and Scotland later, but backing to Southward at Valencia in evening.

Sea moderate to smooth generally.

Barometer falling a little in the west and south, but rising elsewhere. Anticyclone lying over Denmark and the south of Scandinavia, with depression to the north-west of Scotland. Depression moving northwards later, but new disturbance approaching Ireland.

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

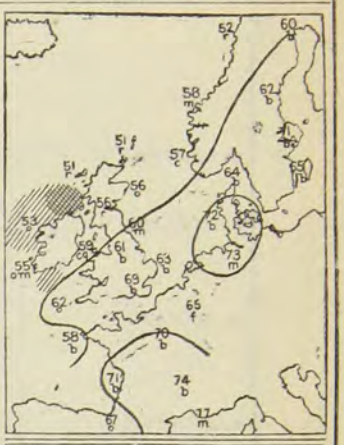
Weather

During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.



Saturday, July 11.

Weather dull and rainy in Ireland and Scotland, but fair or fine elsewhere. Improvement taking place in west and north later.

Temperature fallen a little at many of our western and northern stations, but risen elsewhere; readings ranging from 69° in London to 51° at Sumburgh Head and Stornoway. Subsequently rising to 77° at Loughborough and Oxford and 80° in London and at Cambridge.

Wind Westerly in the south of Ireland and North-Westerly in France, but South-Easterly or Southerly elsewhere; fresh or strong in force at most of the Irish stations.

Sea rough on our north-west coasts.

Barometer falling at all but the southern French stations. Anticyclone lying over Sweden and the north-west of Spain, with well-marked depression off the north-west of Ireland. Depression subsequently moving northwards, and barometer rising on our western coasts.

Sunday, July 12.

Weather dull and rainy in the south-east of England, but fair or fine elsewhere. Marked improvement taking place in south-east later.

Temperature fallen a little in most places; reading ranging from 62° at Prawle Point and Cambridge to 49° in the Shetlands. Maxima over England considerably lower than on previous day, highest point in London being only 68°.

Wind moderate South-Westerly at most of our northern stations and South-Easterly on the eastern shores of the North Sea, but light Westerly or North-Westerly elsewhere.

Sea rather rough at Valencia, moderate to smooth elsewhere.

Barometer falling a little in Scandinavia and Denmark, but rising in our Islands and France. Anticyclone lying over north-west of Spain, with depression to the northward of Scotland and shallow subsidiary disturbance over the southern part of the North Sea. Slight fall taking place on our southern coasts later.

Monday, July 13.

Weather fair generally, but rainy at one or two of the eastern stations and showery at Mullaghmore. Thunderstorms occurring in evening in London and at Cambridge, with very heavy rain over the northern parts of the Metropolis.

Temperature fallen a little in most places; readings ranging from 59° at Loughborough, Cambridge, Yarmouth, and Dungeness to 52° at Sumburgh Head.

Wind variable at some of our eastern stations, but light North-Westerly elsewhere.

Sea slight or smooth generally.

Barometer falling a little on our south-west coasts as well as in Scandinavia and Denmark, but rising in most other localities. Large high-pressure area lying over France, the south of Ireland, and the English Channel, with shallow depression over the south of Sweden. Rise taking place generally later.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 109 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	59	44	56·7	47·9	52·0	− 1·4	70	0	5	0·57	+0·10	*	*
	Stornoway	60	44	57·6	48·0	52·5	− 1·8	74	0	6	1·57	+0·87	29	24
	Wick	68	44	62·0	49·3	55·2	+ 0·2	92	0	6	0·63	+0·15	*	*
1. SCOTLAND, E.	Nairn	73	45	64·9	50·7	57·3	− 0·3	107	0	5	0·35	−0·20	*	*
	Aberdeen	68	45	63·5	49·9	57·1	− 0·1	106	0	4	0·13	−0·43	52	43
	Leith	71	44	67·4	50·9	58·6	+ 0·1	116	0	3	0·12	−0·43	*	*
2. ENGLAND, N.E.	Alnwick Castle	70	44	65·7	48·7	56·6	− 1·0	102	0	2	0·39	?	*	*
	Shields	71	50	66·0	53·3	59·2	+ 0·8	120	0	3	0·12	−0·43	*	*
	Scarborough ℔	75	49	68·7	52·8	60·2	+ 0·7	127	0	1	0·23	−0·38	*	*
	York	75	44	70·0	49·6	59·1	− 1·9	120	0	2	0·25	−0·28	46	40
	Spurn Head	75	53	66·4	55·3	60·5	+ 0·7	130	0	3	0·08	?	*	*
3. ENGLAND, E.	Hillington ℔	83	44	71·8	50·8	60·6	+ 0·2	130	0	3	0·62	−0·01	51	44
	Yarmouth	71	52	65·9	54·9	60·0	− 1·2	126	0	1	0·03	−0·57	*	*
	Geldeston	80	43	70·9	51·3	60·4	− 0·5	129	0	4	0·55	−0·04	52	46
	Cambridge	81	47	73·1	52·6	62·1	− 0·4	141	0	3	0·61	+0·07	51	45
	Rothamsted	77	45	70·8	49·7	59·5	− 2·7	123	0	3	0·18	−0·45	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	82	43	74·4	49·4	61·0	− 0·4	133	0	1	0·14	−0·51	*	*
	Loughborough	81	45	72·7	50·0	60·6	− 1·5	130	0	1	0·04	−0·51	*	*
	Leicester	81	42	73·1	50·2	60·9	− 1·1	132	0	0	—	−0·60	56	49
	Cheadle ℔	72	43	66·8	49·1	57·3	− 3·0	107	0	1	0·24	?	*	*
	Churchstoke ℔	73	40	66·0	45·1	54·8	− 5·0	90	0	2	0·12	?	48	42
	Hereford ℔	78	39	72·0	48·0	59·2	− 2·3	120	0	1	0·02	−0·48	*	*
	Cirencester	75	39	69·3	46·3	57·0	− 3·8	105	0	1	0·07	−0·58	59	52
	Oxford	78	45	71·4	51·0	60·5	− 0·9	130	0	0	—	−0·58	62	55
5. ENGLAND, S.	London†	80	46	73·1	53·1	62·4	− 0·8	143	0	2	0·47	−0·06	54	48
	Marlborough ℔	78	41	71·1	47·0	58·2	− 2·4	113	0	3	0·09	−0·51	53	47
	Strathfield Turgiss ℔	80	42	74·2	48·6	60·9	− 0·3	132	0	2	0·12	−0·41	*	*
	Dungeness	69	51	65·9	54·3	59·7	− 2·0	124	0	1	0·01	?	*	*
	Hastings (St. Leonard's)	71	51	65·5	54·9	59·5	− 1·4	123	0	2	0·05	−0·35	60	54
	Southampton	77	46	71·1	51·4	60·6	− 0·8	130	0	3	0·16	−0·41	58	52
	Hurst Castle	72	45	67·7	49·7	58·1	− 2·7	113	0	3	0·10	−0·41	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	62	45	59·5	50·5	54·7	− 2·2	89	0	7	1·58	?	*	*
	Glasgow	66	45	61·5	49·4	55·0	− 2·6	91	0	3	0·26	−0·50	28	24
	Ardrossan	61	48	58·6	51·0	54·5	− 3·2	88	0	5	0·65	+0·03	*	*
	Douglas (Isle of Man)	64	40	60·1	48·7	54·0	− 3·2	84	0	2	0·56	+0·06	51	44
7. ENGLAND, N.W.	Newton Reigny (Penrith)	65	42	62·1	46·7	53·9	− 4·4	83	0	4	0·40	?	59	50
	Barrow-in-Furness	67	52	61·7	54·3	57·7	− 1·4	110	0	2	0·97	?	*	*
	Stonyhurst	70	44	64·2	49·0	56·1	− 2·9	99	0	3	0·30	−0·65	57	49
	Blackpool ℔	68	43	63·0	49·4	55·7	− 4·1	96	0	2	0·20	−0·47	63	54
	Manchester	72	42	65·6	48·7	56·6	− 3·8	102	0	2	0·26	−0·51	*	*
	Liverpool Obsy (Bidston)	71	48	64·7	51·9	57·9	− 2·6	111	0	3	0·54	−0·11	*	*
	Llandudno ℔								0					
	Holyhead	63	50	60·6	52·3	56·2	− 2·7	99	0	2	0·34	−0·13	*	*
8. ENGLAND, S.W.	Llandovery	71	33	67·3	42·0	53·8	− 6·7	83	0	4	0·53	?	*	*
	Pembroke	60	51	58·0	53·3	55·6	− 4·2	95	0	1	0·45	−0·02	74	65
	Arlington (N. Devon)	69	43	63·6	47·3	54·9	− 6·0	90	0	3	0·69	?	*	*
	Cullompton ℔	75	39	68·9	47·1	57·2	− 4·3	106	0	2	0·16	?	49	44
	Falmouth	67	48	62·9	50·9	56·5	− 4·3	102	0	2	0·34	−0·35	53	48
	Plymouth	70	45	66·8	52·3	59·1	− 2·6	120	0	3	0·26	−0·32	57	51
	Prawle Point	68	47	63·1	50·6	56·4	− 3·2	101	0	1	0·10	?	*	*
9. IRELAND, N.	Malin Head	60	48	58·7	50·9	54·5	− 2·2	83	0	5	0·69	?	*	*
	Londonderry	67	45	63·1	48·9	55·5	− 2·7	95	0	6	0·86	+0·16	*	*
	Mullaghmore	62	51	60·1	53·4	56·5	− 2·9	102	0	6	0·94	?	*	*
	Belmullet	58	48	57 0	51·1	53·8	− 3·7	83	0	6	2·35	?	*	*
	Markree Castle	66	41	61·7	47·3	54·0	− 5·7	84	0	5	1·00	+0·29	33	28
	Brookeborough	65	42	61·5	47·4	54·0	− 5·9	84	0	3	0·82	?	*	*
	Armagh	67	42	63·5	48·1	55·3	− 4·5	93	0	4	0·53	−0·17	27	23
	Donaghadee	67	44	63·6	49·0	55·8	− 2·4	97	0	4	0·60	+0·03	*	*
	Edgeworthstown	67	41	64·3	47·9	55·5	− 4·2	95	0	3	0·80	?	*	*
10. IRELAND, S.	Dublin	72	46	66·0	52·4	58·7	− 1·0	117	0	4	0·19	−0·37	37	32
	Parsonstown	67	44	61·7	49·4	55·1	− 4·2	92	0	4	0·57	−0·08	34	30
	Kilkenny	67	41	63·6	47·3	54·9	− 5·0	90	0	1	0·14	?	*	*
	Waterford												*	*
	Roche's Point	64	47	62·4	50·7	53·1	− 4·6	99	0	3	0·41	−0·29	*	*
	Valencia	63	48	61·6	52·0	56·5	− 2·2	102	0	4	0·93	+0·13	46	41
	Killarney	65	44	62·5	51·2	56·5	− 3·0	102	0	3	0·62	?	*	*
	Foynes	67	43	61·4	48·9	54·7	− 4·3	89	0	5	0·47	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	52	62·6	54·1	58·1	− 2·2	113	0	3	0·67	+0·24	*	*
	Jersey (Noirmont)	74	51	65·9	53·6	59·3	− 2·1	121	0	2	0·06	−0·44	66	60

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 29.] *New Series.* WEEK ENDING MONDAY, 20TH JULY, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 116.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	61	40	57·1	44·9	50·6	4 below.	60	719	0	528
	1. SCOTLAND, EAST	67	43	62·1	48·6	54·9	3 below.	90	1113	0	565
	2. ENGLAND, N.E.	70	42	63·3	51·3	56·9	3 below.	104	1159	0	455
	3. ENGLAND, EAST	74	44	68·8	52·9	60·3	1 below.	128	1401	0	559
	4. MIDLAND COUNTIES	74	37	67·2	52·4	59·3	2 below.	121	1365	0	558
	5. ENGLAND, SOUTH	75	43	68·5	53·6	60·5	1 below.	130	1521	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	68	43	59·9	48·2	53·7	4 below.	82	1018	0	453
	7. ENGLAND, N.W.	74	41	62·0	51·5	56·4	3 below.	101	1128	0	425
	8. ENGLAND, S.W.	70	38	64·2	53·0	58·2	3 below.	113	1324	0	331
	9. IRELAND, NORTH	67	34	60·9	48·8	54·4	5 below.	87	1148	0	407
	10. IRELAND, SOUTH	68	38	63·2	51·8	57·1	3 below.	106	1341	0	328
	— CHANNEL ISLANDS	68	50	64·1	54·5	59·0	2 below.	119	1440	0	106

	DISTRICTS. (See p. 116.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	6	0 (average).	141	17·8	21	727	18	27
	1. SCOTLAND, EAST	4	5	0 (average).	101	11·9	33	869	28	33
	2. ENGLAND, N.E.	5	6	0 (average).	101	11·4	18	636	16	24
	3. ENGLAND, EAST	3	1	5 less.	97	12·2	28	942	25	36
	4. MIDLAND COUNTIES	3	2	4 less.	102	13·0	28	858	25	33
	5. ENGLAND, SOUTH	2	1	4 less.	93	13·5	34	918	31	35
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	8	0 (average).	118	21·5	29	798	25	30
	7. ENGLAND, N.W.	5	12	5 more.	107	15·7	24	777	21	30
	8. ENGLAND, S.W.	4	6	1 more.	111	18·7	28	916	25	35
	9. IRELAND, NORTH	6	13	7 more.	121	17·5	22	763	19	29
	10. IRELAND, SOUTH	4	7	0 (average).	114	21·4	17	872	15	33
	— CHANNEL ISLANDS	4	1	3 less.	120	14·9	43	1116	40	43

General Remarks.

Weather has been fair generally over England, but showery at the western and northern stations; a good deal of fog has prevailed over our south-western districts.

Temperature has been below its mean value everywhere. Over England the deficit has amounted to only one or two degrees, but in Scotland it was three or four degrees, and in Ireland it varied from three to five degrees, and at some stations to six degrees. The maxima (which exceeded 70° at the English stations only) were recorded on various dates, according to the locality of the station, and were of course much higher at the inland stations than on the coasts. The minima occurred as a rule on Tuesday (14th) and were very low in some places, especially over the northern and central parts of Ireland, where they ranged from 34° to 39°.

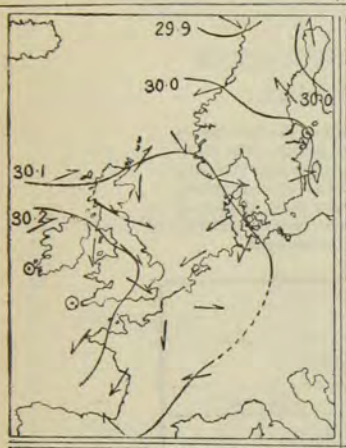
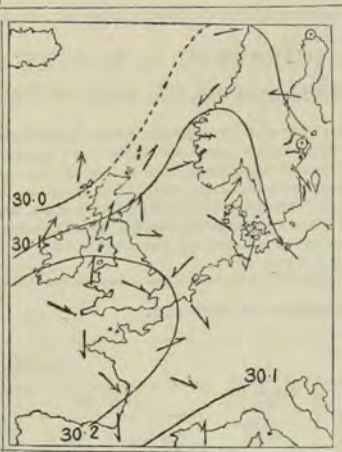
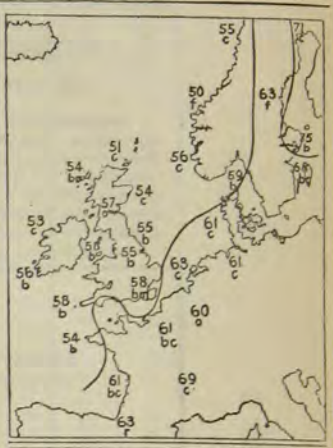
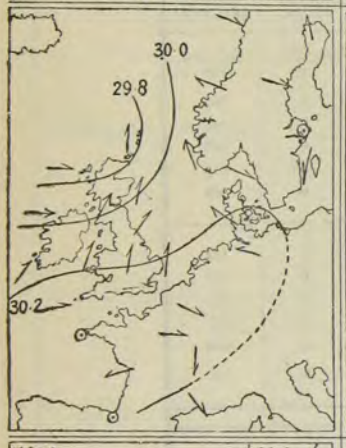
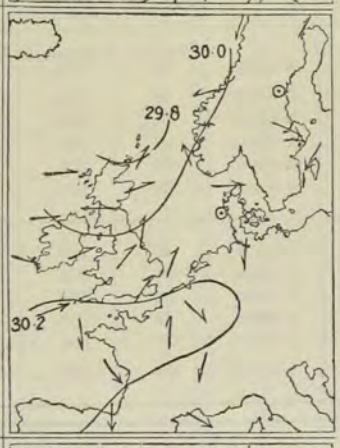
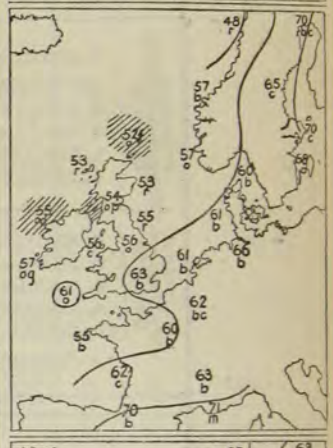
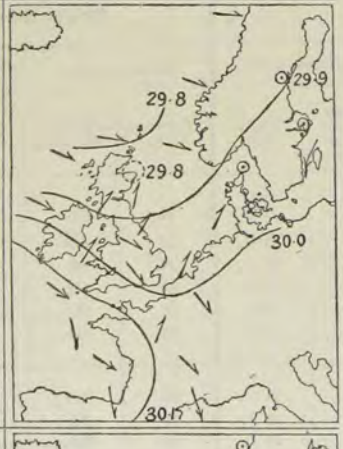
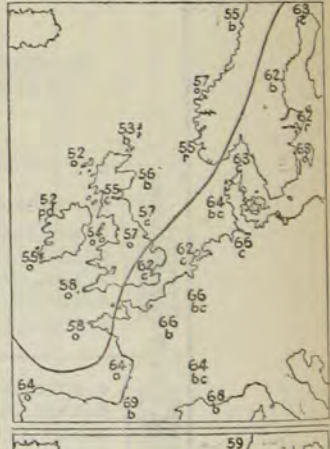
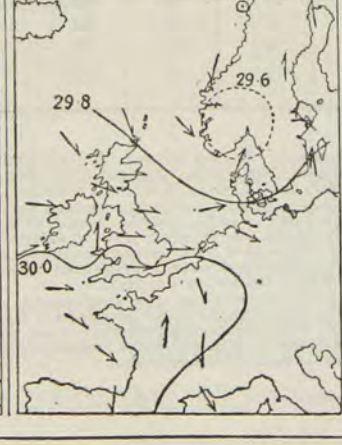
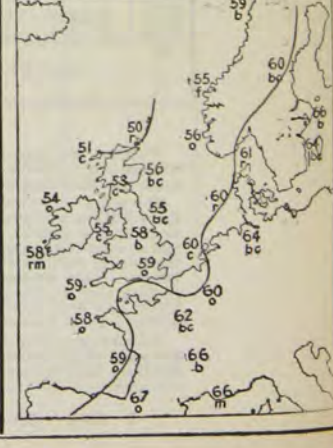
Rainfall was from four to five tenths of an inch less than the mean for the week at the English stations, while it was about its mean value in Scotland, slightly in excess over "Ireland, S." and "England, S.W.", and largely in excess over "Ireland, N." and "England, N.W." The number of rainy days varied from two in "England, S." to five in "Scotland, N.", "Scotland, W.", and "England, N.W.", and to six in "Ireland, N."

Bright sunshine shows a decided decrease from the values recorded last week. In the south of Ireland only one-seventh of the possible duration was recorded, and in the northern parts of Scotland and Ireland the quantities recorded showed rather less than one-fifth of the possible duration, while over our midland and eastern counties there was only one-fourth, and even in the Channel Islands less than half.

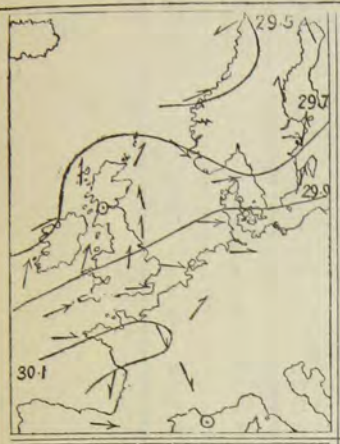
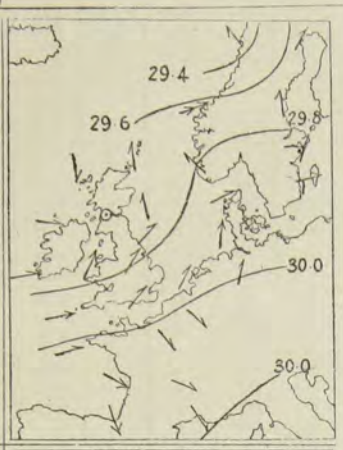
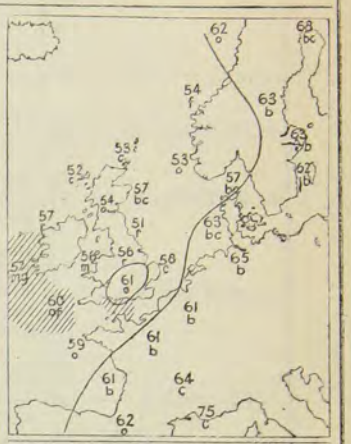
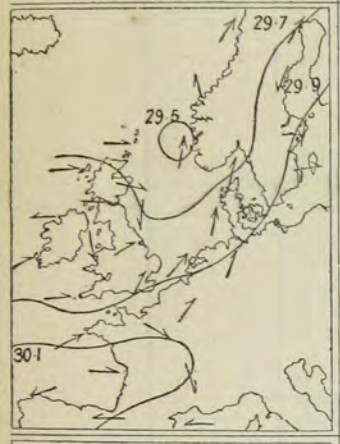
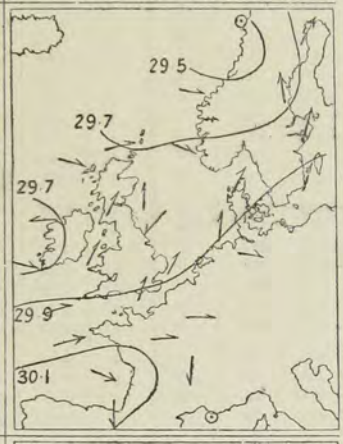
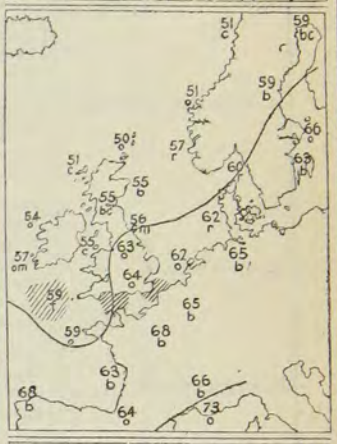
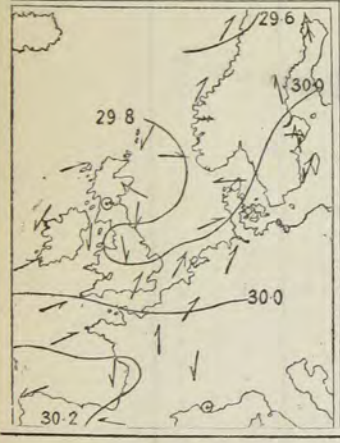
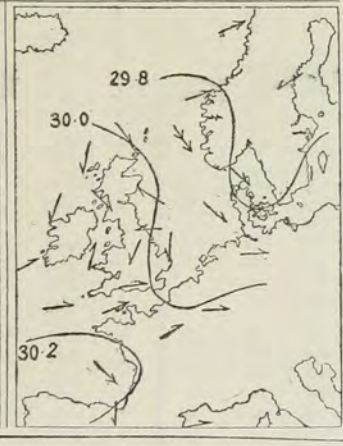
Depressions observed.—These were comparatively unimportant, and, until the 19th, were confined to the northern and north-western parts of the Kingdom. The distribution of pressure then became very complex, and some shallow disturbances passed across Ireland and England, producing little wind, but in some places much rain.

E 18339. 350.—7/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind.		Weather	Synoptic Charts.
8 a.m.	6 p.m.	During the 24 hours succeeding 8 a.m. on the dates given.	Temperature and Weather at 8 a.m.
		**Tuesday, July 14.** *Weather* fine generally, but foggy at some of the Scandinavian stations and rainy at Biarritz. Rain falling in the north and north-west in evening. *Temperature* risen a little on our western coasts, but fallen elsewhere; readings ranging from 62° at Prawle Point to 51° in the Shetlands. Highest maxima 73° at Loughborough, 72° at Hurst Castle, and 70° at York and Cambridge. *Wind* light South-Westerly on our northern coasts, but North-Westerly in the south, and Northerly or North-Easterly in France and the south of Denmark. Subsequently increasing to fresh or strong breeze from South or South-West on our extreme north-west coasts. *Sea* smooth. *Barometer* rising generally. Large anticyclone, with readings above 30·2 inches, lying over the west and south-west of our Islands, with lowest pressures in the north of Sweden. Fall taking place in west and north later, and depression appearing off the north-west of Scotland.	
		**Wednesday, July 15.** *Weather* dull on our western and northern coasts, with rain in several places, but fair or fine elsewhere. Some improvement taking place in west and north later. *Temperature* risen a little in the south-east of England; readings ranging from 65° at Hurst Castle to 52° at Sumburgh Head and Malin Head. Highest maxima 75° in London and 71° at Cambridge. *Wind* moderate North-Easterly in the west of France, and South-Easterly on the eastern shores of the North Sea, but South-Westerly or Westerly in most other localities; fresh or strong in force at some of our northern and north-western stations. *Sea* rough at Sumburgh Head, Ardrossan, and Mullaghmore; moderate to smooth elsewhere. *Barometer* falling on our western and northern coasts, but rising at our south-eastern and most of the Continental stations. Anticyclone lying over North Germany, France, and the south of our Islands, with well-marked depression off the north of Scotland. Depression moving away later, and barometer rising in north-west.	
		**Thursday, July 16.** *Weather* fine at some of the Scotch and French stations, but cloudy or overcast elsewhere, with rain at Skudesnaes and Mullaghmore. Rain falling later at many of our western and northern stations, and showers in the south-east of England. *Temperature* risen a little at our north-eastern and several of the Continental stations, but fallen elsewhere; readings ranging from 62° in the south-east of England to 52° in the extreme north of Scotland and Ireland. Highest maxima 71° in London and 70° at Cambridge. *Wind* moderate North-Westerly on our western coasts and South-Westerly in the east, with South-Easterly breeze on the eastern shores of the North Sea. *Sea* moderate to smooth. *Barometer* falling on all but our northern coasts. Anticyclone lying over the Bay of Biscay, with depression to the northward of the Shetlands, and shallow subsidiary disturbance over the north of England. Fall setting in over our northern coasts later.	
		**Friday, July 17.** *Weather* rainy in Denmark as well as at Sumburgh Head and Valencia, but fair or fine elsewhere. Showers falling later at many of the western and northern stations. *Temperature* fallen a little on all but our western and south-western coasts; readings ranging from 62° at Hurst Castle and Dungeness to 50° at Sumburgh Head and Wick. Maxima not exceeding 70° in any part of the United Kingdom. *Wind* Southerly on the eastern shores of the North Sea, but Westerly or North-Westerly in our Islands, and Northerly in the west of France; moderate in force generally. Subsequently backing to South-West at some of our western stations. *Sea* moderate to smooth. *Barometer* falling at all but a few of the French stations. Anticyclone lying over the Bay of Biscay and greater part of France, with small depression off the south of Norway. Slight rise of mercury taking place on our north and east coasts later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, July 18.** *Weather* fair but cloudy over the south-eastern parts of England, rather showery in the remainder and the east of Scotland, very showery in Ireland and the west of Scotland. Fog prevalent on our south-western coasts. *Temperature* little changed; 8 a.m. readings varying from 60° to 61° over inland parts of England, but thermometer rising to between 70° and 74° during the day; maxima in Ireland and Scotland much lower than these. *Wind* variable and light in the North, fresh South-Westerly elsewhere; a slight gale in evening over eastern parts of the Channel. *Sea* rough in south-west and south. *Barometer* highest over France and the Bay of Biscay, lowest to northward of our Islands; gradients moderate. Shallow depression over Scotland, moving north-eastwards.	
		**Sunday, July 19.** *Weather* fine in Scotland, cloudy and showery elsewhere; showers especially heavy over our western districts, but felt only locally in the south-east of England. Fog on our south-western coasts. *Temperature* fallen a little; but maxima over England varying from 70° to 72°. *Wind* very light and variable from North-Eastward over our northern districts, continuing fresh from the South-Westward in the south. *Sea* still rough in south-west and south. *Barometer* falling irregularly. Pressure still highest in south and lowest in north and north-west, but distribution very complex. New depression appearing in west at night.	
		**Monday, July 20.** *Weather* cloudy at first, except in north and north-west, where sky was clear, fog in south-west, and some rain in south-western and south-eastern districts, and slight local showers in a few other places; thunder in east of Scotland. *Temperature* not materially altered, but air rather close at times. *Wind* extremely variable, except in the South, where fresh West-South-Westerly winds still held. *Sea* rough in south west and south. *Barometer* rising briskly. Readings remaining highest over Bay of Biscay and France, lowest in far north. Distribution of pressure over our Islands exceedingly complex at first, but becoming simpler later on.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 113 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	57	42	56·0*	45·4	50·3	− 3·2	58	0	5	0·19	−0·27	*	*
	Stornoway	60	42	56·1	45·0	50·2	− 4·3	57	0	6	0·78	+0·09	21	18
	Wick	61	40	59·3	44·3	51·3	− 4·1	65	0	4	0·78	+0·28	*	*
1. SCOTLAND, E.	Nairn	66	43	61·7	47·4	54·1	− 3·6	85	0	2	0·42	−0·16	*	*
	Aberdeen	67	47	62·4	48·7	55·1	− 2·2	92	0	5	0·71	+0·12	33	28
	Leith	66	46	62·3	49·6	55·5	− 2·9	95	0	6	0·50	−0·08	*	*
2. ENGLAND, N.E.	Alnwick Castle	64	46	61·3	49·7	55·1	− 2·4	92	0	7	0·84	?	*	*
	Shields	62	49	61·3	50·9	55·7	− 2·7	96	0	5	0·55	−0·03	*	*
	Scarborough ℻	67	49	63·5	51·7	57·2	− 2·4	106	0	4	0·51	−0·12	*	*
	York	70	42	66·3	50·0	57·6	− 3·7	109	0	4	0·68	+0·14	18	16
	Spurn Head	68	50	64·1	54·4	58·9	− 1·5	118	0	4	0·27	?	*	*
3. ENGLAND, E.	Hillington ℻	73	45	69·1	51·8	59·9	− 1·1	125	0	5	0·16	−0·50	27	24
	Yarmouth	72	54	67·1	55·3	60·8	− 0·6	132	0	4	0·24	−0·38	*	*
	Geldeston	72	45	68·5	52·4	59·9	− 1·3	125	0	3	0·11	−0·51	28	25
	Cambridge	74	47	70·1	52·3	60·6	− 2·2	130	0	0	—	−0·54	29	26
	Rothamsted	72	44	69·3	52·8	60·5	− 1·9	130	0	3	0·20	−0·44	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	71	43	67·9	51·1	59·9	− 2·8	118	0	2	0·22	−0·46	*	*
	Loughborough	73	46	68·7	53·4	60·5	− 1·7	130	0	3	0·08	−0·46	*	*
	Leicester	73	47	69·0	54·7	61·4	− 0·8	136	0	3	0·13	−0·50	23	20
	Cheadle ℻	65	45	63·3	51·1	56·8	− 3·5	104	0	5	0·42	?	*	*
	Churchstoke ℻	67	37	64·1	49·4	56·2	− 3·9	99	0	2	0·24	?	30	27
	Hereford ℻	74	39	69·8	51·5	60·0	− 1·7	126	0	4	0·08	−0·44	*	*
	Cirencester	68	44	66·1	52·6	58·9	− 2·2	118	0	4	0·46	−0·21	30	27
	Oxford	70	49	68·4	55·4	61·5	− 0·1	137	0	2	0·12	−0·47	27	24
5. ENGLAND, S.	London†	75	48	71·3	53·7	61·9	− 1·4	139	0	2	0·04	−0·49	32	29
	Marlborough ℻	71	43	69·0	52·2	60·0	− 0·8	126	0	3	0·11	−0·51	31	28
	Strathfield Turgiss ℻	74	44	71·9	51·9	61·2	− 0·3	134	0	2	0·08	−0·46	*	*
	Dungeness	68	51	65·6	55·9	60·4	− 1·1	129	0	1	0·08	?	*	*
	Hastings (St. Leonard's)	70	53	64·5	55·8	59·9	− 1·4	125	0	2	0·19	−0·24	34	31
	Southampton	74	47	70·4	54·3	61·8	+ 0·2	139	0	3	0·12	−0·48	39	35
	Hurst Castle	72	45	67·1	51·1	58·5	− 2·9	116	0	4	0·23	−0·30	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	59	46	57·9	47·4	52·3	− 4·5	72	0	4	0·94	?	*	*
	Glasgow	66	43	60·5	47·0	53·3	− 4·6	79	0	4	0·55	−0·22	25	21
	Ardrossan	65	46	60·4	49·0	54·3	− 3·4	86	0	7	0·45	−0·18	*	*
	Douglas (Isle of Man)	68	44	60·9	49·4	54·8	− 2·3	90	0	5	1·07	+0·52	33	29
7. ENGLAND, N.W.	Newton Reigny (Penrith)	65	41	61·1	47·7	53·9	− 4·2	83	0	5	0·40	?	26	23
	Barrow-in-Furness	65	51	59·6	52·6	55·9	− 3·5	97	0	5	1·29	?	*	*
	Stonyhurst	67	43	62·5	49·9	55·8	− 3·4	97	0	5	1·85	+1·14	22	19
	Blackpool ℻	66	52	61·2	54·0	57·4	− 2·7	108	0	5	1·16	?	23	20
	Manchester	74	42	66·8	51·0	58·4	− 2·2	115	0	5	1·21	+0·41	*	*
	Liverpool Obsy (Bidston)	66	50	62·9	53·3	57·8	− 2·8	111	0	5	1·26	+0·57	*	*
	Llandudno ℻													
	Holyhead	63	48	59·9	52·3	55·8	− 3·5	97	0	5	1·06	+0·58	*	*
8. ENGLAND, S.W.	Llandovery	70	46	65·1	53·9	59·1	− 1·5	120	0	5	1·10	?	*	*
	Pembroke	62	48	60·0	53·4	56·5	− 3·5	102	0	4	0·55	+0·07	30	27
	Arlington (N. Devon)	63	42	61·9	50·6	55·9	− 5·3	97	0	5	1·81	?	*	*
	Cullompton ℻	70	38	68·2	52·5	59·8	− 1·9	125	0	3	0·28	?	28	25
	Falmouth	69	47	64·7	53·2	58·6	− 2·6	116	0	4	0·22	−0·48	30	28
	Plymouth	70	46	67·0	54·4	60·3	− 1·4	128	0	5	0·15	−0·45	23	21
	Prawle Point	66	46	62·6	52·7	57·3	− 2·6	107	0	4	0·35	?	*	*
9. IRELAND, N.	Malin Head	60	48	57·9	49·7	53·5	− 3·2	81	0	6	0·76	?	*	*
	Londonderry	66	45	62·0	47·7	54·4	− 4·0	87	0	6	0·74	+0·01	*	*
	Mullaghmore	62	50	60·0	51·9	55·7	− 3·9	96	0	6	1·41	?	*	*
	Belmullet	62	44	58 0	50·1	53·8	− 3·9	83	0	7	1·53	?	*	*
	Markree Castle	67	34	61·3	46·7	53·5	− 6·4	81	0	7	1·88	+1·14	?23	?20
	Brookeborough	67	37	61·5	47·3	53·9	− 6·3	83	0	5	2·23	?	*	*
	Armagh	67	42	62·9	48·2	55·0	− 5·2	91	0	7	1·11	+0·39	20	18
	Donaghadee	65	42	61·6	48·9	54·8	− 3·5	90	0	6	1·49	+0·91	*	*
	Edgeworthstown	67	39	62·9	48·9	55·4	− 4·6	94	0	4	0·92	?	*	*
10. IRELAND, S.	Dublin	68	46	65·0	52·1	58·1	− 1·8	113	0	4	0·86	+0·28	22	19
	Parsonstown	66	40	62·9	49·7	55·8	− 3·5	97	0	4	0·99	+0·32	14	12
	Kilkenny	67	42	64·1	51·4	57·3	− 2·9	107	0	4	0·62	?	*	*
	Waterford	68	43	64·9	51·1	57·5	− 3·2	109	0	2	0·30	−0·29	*	*
	Roche's Point	66	48	63·7	51·7	57·3	− 3·6	107	0	3	0·17	−0·51	*	*
	Valencia	62	43	61·1	52·4	56·5	− 2·5	102	0	6	1·08	+0·28	14	13
	Killarney	66	38	62·7	52·4	57·2	− 2·3	106	0	4	0·28	?	*	*
	Foynes	62	50	61·1	53·2	56·9	− 2·4	104	0	7	0·98	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	52	63·1	54·9	58·7	− 1·9	117	0	5	0·18	−0·26	*	*
	Jersey (Noirmont)	68	50	65·0	54·1	59·2	− 2·5	120	0	3	0·04	−0·50	43	40

Stations marked ℻ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 30.] *New Series.* WEEK ENDING MONDAY, 27TH JULY, 1885. [*Price* 4*d.* [*Annual subscription, post paid,* £1 1*s.* 2*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 120.)	Temperature of the Air.								
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.		
				Averages of				Above 42°		Below 42°
		Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.		For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	69	38	62·0	49·7	55·4	1 above.	94	813	0	528
	1. SCOTLAND, EAST	83	42	68·8	52·1	59·9	2 above.	125	1238	0	565
	2. ENGLAND, N.E.	86	45	68·6	55·2	61·4	2 above.	136	1295	0	455
	3. ENGLAND, EAST	88	43	75·2	51·4	62·5	1 above.	144	1545	0	559
	4. MIDLAND COUNTIES	91	49	79·1	55·1	66·3	5 above.	170	1535	0	558
	5. ENGLAND, SOUTH	91	43	77·2	53·9	64·7	3 above.	159	1680	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	79	41	70·6	53·8	61·6	4 above.	137	1155	0	453
	7. ENGLAND, N.W.	81	44	71·3	56·6	63·4	4 above.	150	1278 *	0	425
	8. ENGLAND, S.W.	88	47	74·3	56·1	64·6	4 above.	158	1482	0	331
	9. IRELAND, NORTH	83	46	69·5	55·8	62·2	3 above.	141	1289	0	407
	10. IRELAND, SOUTH	81	50	73·1	57·0	64·5	5 above.	158	1499	0	328
	— CHANNEL ISLANDS	82	56	72·3	57·5	64·4	3 above.	157	1597	0	106

	DISTRICTS. (See p. 120.)	Rainfall.					Bright Sunshine.			
		For the Week.			Since Dec. 30/84.		Hours recorded.		Percentage of the possible Duration.	
		Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Number of Rainy Days.	Total Fall.	For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	2	4 less.	144	18·0	36	763	31	27
	1. SCOTLAND, EAST	1	1	6 less.	102	12·0	37	906	32	33
	2. ENGLAND, N.E.	1	2	4 less.	102	11·6	40	676	36	25
	3. ENGLAND, EAST	0	–	6 less.	97	12·2	73	1015	66	37
	4. MIDLAND COUNTIES	0	–	6 less.	102	13·0	57	915	52	34
	5. ENGLAND, SOUTH	0	–	5 less.	93	13·5	72	990	64	36
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	1	1	6 less.	119 *	21·6	49	847	44	31
	7. ENGLAND, N.W.	1	less than ½	7 less.	108	15·7	45	822 *	40	30
	8. ENGLAND, S.W.	1	1	6 less.	112	18·8	61	977	56	36
	9. IRELAND, NORTH	3	4	3 less.	124	17·9	26	789	22	29
	10. IRELAND, SOUTH	1	2	5 less.	115 *	21·6	46	918	41	34
	— CHANNEL ISLANDS	2	less than ½	5 less.	122	14·9	83	1199	78	44

General Remarks.

Weather has been fine, bright, and warm generally over the whole Kingdom.

Temperature has been considerably higher than during any previous week of this summer, the values exceeding the mean by 5° in the "Midland Counties" and "Ireland, S.", by 4° over the western parts of Great Britain, and by 2° or 3° in most other districts. The maxima, which were recorded on the 24th over the more northern districts and on the 25th or 26th over the greater part of England and Ireland, were as high as 91° in the "Midland Counties" and "England, S." (at Leicester and Southampton), 88° in "England, E." and "England, S.W.", and between 79° and 86° in all other districts excepting "Scotland, N.", where the highest reading was 69°. The minima were generally registered either on the 22nd or 23rd, when the thermometer fell to 56° in the "Channel Islands", to 50° in "Ireland, S.", between 43° and 47° over England, to 41° in "Scotland, W." and to 38° in "Scotland, N."

Rainfall has been very slight or altogether absent.

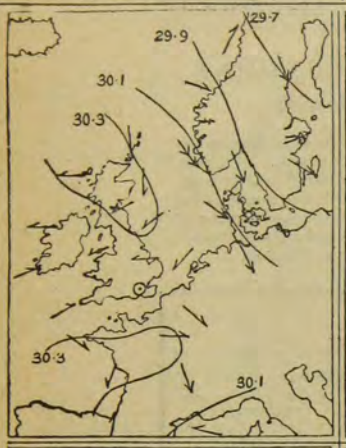
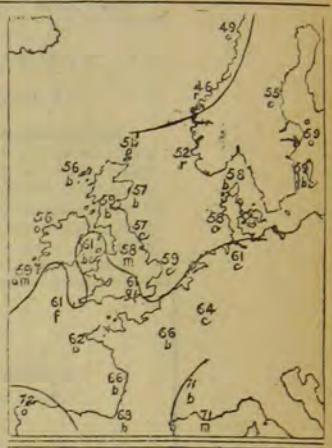
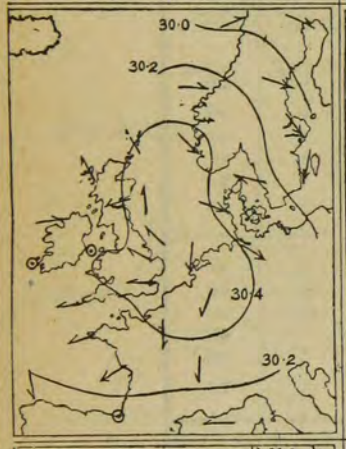
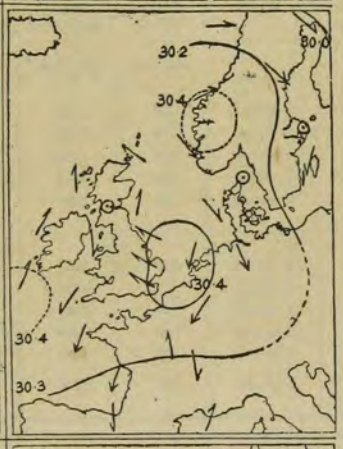
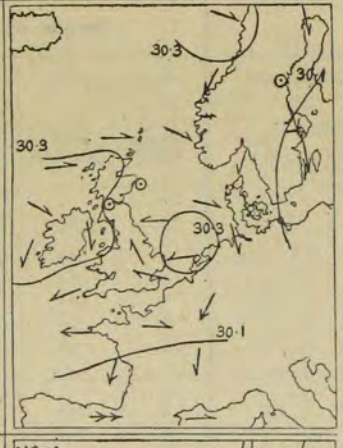
Bright sunshine shows a very general increase, especially over the Channel and the south and south-east of England. The percentages of the possible duration varied from 31 in "Scotland, N." and 32 in "Scotland, E.", to between 52 and 66 over the greater part of England, and to 78 in the "Channel Islands".

Depressions observed.—The only depression within our area was one noticed over the Baltic during the 24th and 25th. Over our Islands the distribution of pressure was anticyclonic, with varying Easterly airs in the south and light winds from various quarters at the more northern stations.

* The corresponding value in last week's Report was altered slightly owing to the receipt of some arrears of observations.

E 18415. 350.—7/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

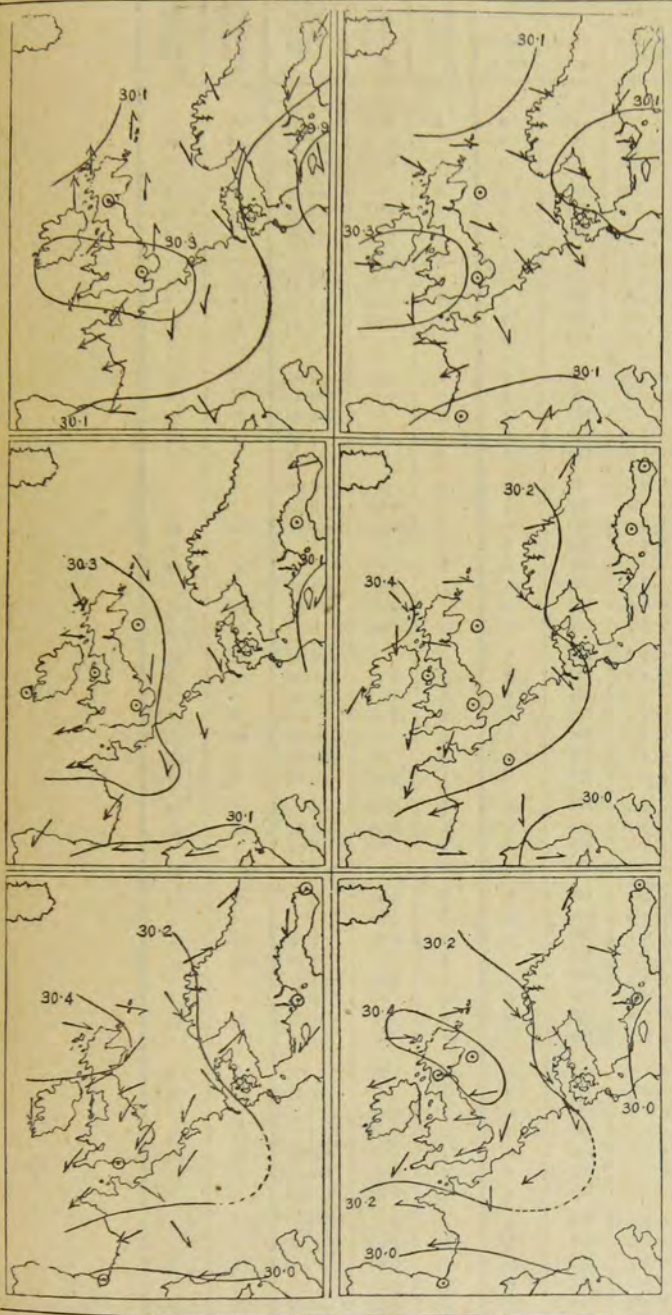
Synoptic Charts. Pressure and Wind.		Weather	Synoptic Charts.
8 a.m.	6 p.m.	During the 24 hours succeeding 8 a.m. on the dates given.	Temperature and Weather at 8 a.m.
		**Tuesday, July 21.** *Weather* rainy in the west of Norway and foggy in the south-west of England, but generally fine elsewhere. *Temperature* fallen in Scandinavia, the Netherlands, and south-east of England, but risen on our western and northern coasts; readings ranging from 63° at Liverpool, Hurst Castle, and Oxford to 51° in the Shetlands. Maxima over England ranging between 70° and 75°. *Wind* strong North-Westerly on eastern shores of the North Sea and light from same quarter in the east of Scotland, but North-easterly in England and the north of Ireland, and Westerly or South-Westerly on our south-west coasts. *Sea* smooth generally. *Barometer* rising at nearly all stations. Anticyclones lying over Scotland and the north of France, with large depression over the north of Sweden. Rise continuing all day.	
		**Wednesday, July 22.** *Weather* still foggy on our south-west coasts and rainy at some of the Irish stations, but generally fine elsewhere. Fog clearing away from south-west coasts later. *Temperature* risen a little in the south-east of England, but fallen at several of the Continental stations; reading ranging from 66° in London to 54° in the Shetlands. Highest maxima 77° at Loughborough and in London, 76° at Oxford, and 75° at Cambridge. *Wind* fresh or strong from North-West in Scandinavia and Denmark, but light from South-East on our northern coasts and moderate from East in the Channel and Bay of Biscay. *Sea* smooth. *Barometer* rising at all but the Western French stations. Large anticyclone lying over our eastern coasts, the Netherlands, and the North Sea, with lowest pressures in the north of Scandinavia. Slight fall taking place generally later.	
		**Thursday, July 23.** *Weather* foggy in the north of Ireland and also at Liverpool, but generally fine elsewhere. Fog clearing away later. *Temperature* risen several degrees in Scotland, but fallen over the central and eastern parts of England; readings ranging from 70° at Aberdeen to 56° at Sumburgh Head, Mullaghmore, and Donaghadee. Highest maxima 81° at Leith, 80° at Nairn, 78° at Loughborough, and 76° at Parsonstown and Cambridge. *Wind* fresh Westerly or North-Westerly in Sweden and Denmark, and moderate Easterly at our southern stations, but light and variable in Scotland and Ireland. *Sea* slight or smooth generally. *Barometer* rising a little in the north of Scandinavia, but falling slightly elsewhere. Large anticyclone lying over our Islands, the Netherlands, the North Sea, and west of Norway, with relatively low pressures over the Baltic and south of France.	
		Friday, July 24. *Weather* foggy on our south-western and extreme northern coasts, and rainy in the south of Sweden, but generally fine elsewhere. *Temperature* fallen several degrees in Scotland and slightly on our south-west coasts, but risen a little in most other localities; readings ranging from 68° at Malin Head and Parsonstown to 54° in the Shetland Hebrides. Highest maxima 84° at Loughborough, 82° at York, and 79° at Cambridge. *Wind* fresh Northerly in Sweden and Denmark and moderate North-Easterly at our southern and the French stations, but light Southerly on our extreme north and north-west coasts. *Sea* slight or smooth. *Barometer* falling a little at all but the French and some of the Scandinavian stations; distribution of pressure similar to that of previous day, but area of low readings over Baltic more strongly marked. Fall continuing all day.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**



Weather

During the 24 hours succeeding 8 a.m. on the dates given.

Saturday, July 25.

Weather rainy in the Hebrides, but fine elsewhere; with, however, haze or fog in many places. Rain falling in north of Ireland later.

Temperature risen generally; readings ranging from 71° at Shields and 70° at Donaghadee and Prawle Point to 55° in the Shetlands. Subsequently rising to 85° in London, 86° at York and Oxford, 88° at Cambridge, and 89° at Loughborough.

Wind moderate or fresh from South on our extreme north and north-west coasts, but Northerly in Sweden and Denmark and North-Easterly at our southern and the French stations. Subsequently veering to West in the extreme north.

Sea moderate to smooth.

Barometer rising at all but our northern and north-western stations. Anticyclone lying over the southern parts of Ireland and England with lowest pressures over the Baltic, but relatively low pressures to the north-westward of Scotland. Rise of barometer extending to our northern coasts later.

Sunday, July 26.

Weather dull on our western and northern coasts, with fog in a few places and rain at Belmullet, but generally fine elsewhere.

Temperature fallen several degrees at most of the northern stations, but risen a little in the south; readings ranging from 76° at Prawle Point to 52° at Sumburgh Head. Highest maxima 89° at Loughborough and 87° in London and at Cambridge.

Wind light North-Westerly or Northerly on the North Sea coasts and moderate North-Easterly in France, but very variable over the great part of our Islands.

Sea smooth generally.

Barometer rising at all stations. Anticyclone lying over the whole of our Islands, with relatively low pressures over the Baltic and south of France. Slight fall taking place at our southern stations later.

Monday, July 27.

Weather dull at our northern and north-western stations, with fog and drizzling rain locally, but fine elsewhere. Improvement taking place in north later.

Temperature fallen several degrees in the west and north of England; readings ranging from 74° at Loughborough to 52° at Sumburgh Head. Highest maxima 85° at Oxford, 84° in London and at Cambridge, 82° at Hurst Castle, and 81° at Loughborough.

Wind light Westerly in the North of Scotland, fresh North-Westerly on the eastern shores of the North Sea, and moderate North-Easterly over England, Ireland, and France.

Sea rather rough at Malin Head, slight or smooth elsewhere.

Barometer rising on our north and east coasts, but falling in most other localities. Central portion of anticyclone now lying over Scotland, with relatively low pressure in Sweden and the south of France. No important change later.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 117 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	59	43	57·0	48·6	52·3	− 1·4	86	0	6	0·35	−0·16	*	*
	Stornoway	68	42	63·7	50·4	56·6	+ 1·9	102	0	1	0·18	−0·51	36	31
	Wick	69	38	65·4	50·0	57·2	+ 1·9	106	0	1	0·02	−0·49	*	*
1. SCOTLAND, E.	Nairn	80	42	69·0	52·1	60·0	+ 2·4	126	0	0	—	−0·60	*	*
	Aberdeen	83	43	68·1	51·6	59·3	+ 2·1	121	0	2	0·02	−0·59	37	32
	Leith	82	46	69·4	52·6	60·4	+ 1·9	129	0	1	0·13	−0·47	*	*
2. ENGLAND, N.E.	Alnwick Castle	77	45	67·4	54·0	60·2	+ 2·6	127	0	1	0·37	?	*	*
	Shields	79	51	67·7	55·6	61·2	+ 2·9	134	0	1	0·28	−0·32	*	*
	Scarborough ℳ	74	48	66·4	54·6	60·1	+ 0·5	127	0	2	0·12	−0·50	*	*
	York	86	53	76·0	55·9	65·3	+ 3·9	163	0	1	0·01	−0·54	40	36
	Spurn Head	74	54	65·6	55·9	60·4	+ 0·3	129	0	0	—	?	*	*
3. ENGLAND, E.	Hillington ℳ	88	44	79·5	49·4	63·4	+ 2·8	150	0	0	—	−0·66	71	64
	Yarmouth	74	55	67·3	57·0	61·8	+ 0·3	139	0	0	—	−0·60	*	*
	Geldeston	79	43	71·1	49·4	59·5	− 1·8	123	0	0	—	−0·60	77	70
	Cambridge	88	45	80·4	50·3	64·3	+ 1·5	156	0	0	—	−0·52	71	65
	Rothamsted	85	43	77·6	51·1	63·4	+ 1·0	150	0	0	—	−0·63	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	89	49	79·4	54·1	65·9	+ 4·5	167	0	0	—	−0·65	*	*
	Loughborough	89	52	81·9	54·9	67·5	+ 5·3	179	0	1	0·01	−0·53	*	*
	Leicester	91	53	82·2	55·8	68·1	+ 6·0	183	0	0	—	−0·62	54	49
	Cheadle ℳ	83	54	75·4	56·1	65·1	+ 4·7	162	0	0	—	?	*	*
	Churchstoke ℳ	83	51	77·9	53·5	64·8	+ 4·6	160	0	0	—	?	43	39
	Hereford ℳ	87	52	81·2	55·9	67·7	+ 6·1	180	0	1	0·02	−0·51	*	*
	Cirencester	85	52	78·1	55·1	65·8	+ 4·6	167	0	1	0·01	−0·69	60	55
	Oxford	86	50	76·4	55·4	65·2	+ 3·7	162	0	0	—	−0·60	69	63
5. ENGLAND, S.	London†	87	47	79·1	55·1	66·3	+ 3·0	170	0	0	—	−0·52	68	62
	Marlborough ℳ	87	48	79·4	52·3	64·9	+ 4·5	160	0	1	0·11	−0·54	60	55
	Strathfield Turgiss ℳ	90	43	82·0	49·8	64·8	+ 3·4	160	0	0	—	−0·52	*	*
	Dungeness	77	50	70·1	57·1	62·8	+ 1·0	146	0	1	0·05	?	*	*
	Hastings (St. Leonard's)	87	52	73·5	56·4	64·4	+ 3·0	157	0	0	—	−0·45	86	79
	Southampton	91	49	80·8	53·6	66·3	+ 4·7	170	0	0	—	−0·61	74	68
	Hurst Castle	84	47	75·3	53·3	63·5	+ 2·2	151	0	1	0·01	−0·52	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	76	41	68·3	51·6	59·4	+ 2·6	122	0	1	0·18	?	*	*
	Glasgow	79	50	72·0	54·3	62·5	+ 4·6	144	0	1	0·18	−0·62	41	36
	Ardrossan	75	49	69·4	54·0	61·2	+ 3·5	134	0	0	—	−0·70	*	*
	Douglas (Isle of Man)	78	51	72·6	55·2	63·3	+ 5·6	149	0	0	—	−0·61	57	51
7. ENGLAND, N.W.	Newton Reigny (Penrith)	79	44	72·8	53·4	62·4	+ 3·9	143	0	3	0·03	?	41	36
	Barrow-in-Furness	74	55	69·9	59·1	64·1	+ 4·5	155	0	2	0·04	?	*	*
	Stonyhurst	79	53	73·7	56·1	64·3	+ 5·1	156	0	1	0·02	−1·01	43	38
	Blackpool ℳ	71	51	69·5	54·7	61·6	+ 1·5	137	0	0	—	−0·68	49	44
	Manchester	81	54	73·3	55·9	64·0	+ 3·5	154	0	1	0·01	−0·79	*	*
	Liverpool Obsy (Bidston)	75	55	71·1	59·1	64·7	+ 4·1	159	0	0	—	−0·67	*	*
	Llandudno ℳ	76	54	70·3	58·0	63·7	+ 3·0	152	0	0	—	−0·62	46	44
	Holyhead	73	54	69·4	56·4	62·5	+ 2·8	144	0	0	—	−0·51	*	*
8. ENGLAND, S.W.	Llandovery	88	48	80·6	55·7	67·3	+ 6·7	177	0	3	0·20	?	*	*
	Pembroke	77	56	67·6	58·1	62·5	+ 2·6	144	0	0	—	−0·52	61	55
	Arlington (N. Devon)	83	53	74·4	55·6	64·4	+ 3·4	157	0	1	0·03	?	*	*
	Cullompton ℳ	86	47	78·6	52·7	64·7	+ 3·1	159	0	1	0·09	?	55	50
	Falmouth	80	54	71·2	57·6	63·9	+ 2·7	153	0	1	0·01	−0·74	60	56
	Plymouth	81	51	74·6	55·9	64·6	+ 2·9	158	0	0	—	−0·62	67	62
	Prawle Point	82	54	72·9	57·1	64·5	+ 4·6	158	0	1	0·01	?	*	*
9. IRELAND, N.	Malin Head	74	51	66·4	55·9	60·8	+ 4·1	132	0	3	0·14	?	*	*
	Londonderry	83	46	73·3	54·1	63·0	+ 4·5	147	0	2	0·06	−0·69	*	*
	Mullaghmore	77	54	68·0	57·3	62·3	+ 2·7	142	0	4	0·60	?	*	*
	Belmullet	71	54	64 7	57·4	60·9	+ 3·2	132	0	4	1·27	?	*	*
	Markree Castle	78	53	69·8	55·3	62·1	+ 2·3	141	0	5	0·57	−0·19	17	15
	Brookeborough	77	52	71·6	55·3	62·9	+ 2·9	146	0	1	0·22	?	*	*
	Armagh	78	51	73·0	55·8	63·8	+ 3·9	153	0	2	0·05	−0·65	34	29
	Donaghadee	70	52	65·6	54·7	59·8	+ 1·6	125	0	1	0·01	−0·59	*	*
	Edgeworthstown	80	51	73·4	56·6	64·4	+ 4·5	157	0	2	0·39	?	*	*
10. IRELAND, S.	Dublin	77	55	70·6	58·4	64·1	+ 4·3	155	0	1	0·08	−0·52	48	43
	Parsonstown	79	52	75·3	57·9	66·0	+ 6·5	168	0	2	0·22	−0·48	39	35
	Kilkenny	81	54	75·9	58·6	66·7	+ 6·6	173	0	3	0·80	?	*	*
	Waterford	80	51	75·4	54·6	64·3	+ 3·7	156	0	1	0·08	−0·53	*	*
	Roche's Point	72	55	68·0	56·4	61·8	+ 1·1	139	0	0	—	−0·70	*	*
	Valencia	77	55	71·7	56·9	63·8	+ 4·8	153	0	0	—	−0·85	50	45
	Killarney	78	50	75·1	?55·9	?6·48	?+ 5·3	?160	0	1	0·14	?	*	*
	Foynes	75	54	72·5	57·2	64·3	+ 5·0	156	0	3	0·26	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	74	56	69·1	57·0	62·6	+ 1·9	144	0	3	0·04	−0·42	*	*
	Jersey (Noirmont)	82	56	75·4	58·0	66·1	+ 4·3	169	0	0	—	−0·53	83	78

Stations marked ℳ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 31.] *New Series.* WEEK ENDING MONDAY, 3RD AUGUST, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 124.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	68	40	58·7	46·7	52·3	2 below.	72	885	0	528
	1. SCOTLAND, EAST	75	43	63·7	47·9	55·2	3 below.	92	1330	0	565
	2. ENGLAND, N.E.	69	42	60·6	51·9	56·0	3 below.	98	1393	0	455
	3. ENGLAND, EAST	71	50	64·0	54·1	58·7	3 below.	117	1662	0	559
	4. MIDLAND COUNTIES	72	43	67·4	51·3	58·8	2 below.	118	1653	0	558
	5. ENGLAND, SOUTH	75	51	69·7	55·2	62·0	0 (average).	140	1820	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	77	43	68·5	49·9	58·6	1 above.	116	1271	0	453
	7. ENGLAND, N.W.*	76	39	67·0	50·7	58·3	2 below.	114	1392	0	425
	8. ENGLAND, S.W.	76	41	67·4	53·1	59·7	1 below.	124	1606	0	331
	9. IRELAND, NORTH	80	42	69·0	50·8	59·2	0 (average).	120	1409	0	407
	10. IRELAND, SOUTH	78	44	70·4	52·1	60·6	1 above.	130	1629	0	328
	— CHANNEL ISLANDS	67	55	65·2	57·1	60·9	1 below.	132	1729	0	106

	DISTRICTS. (See p. 124.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	1	5 less.	146	18·1	52	815	46	28
	1. SCOTLAND, EAST	2	2	5 less.	104	12·2	47	953	42	33
	2. ENGLAND, N.E.	1	2	4 less.	103	11·8	18	694	17	24
	3. ENGLAND, EAST	1	less than ½	6 less.	98	12·2	9	1024	9	36
	4. MIDLAND COUNTIES	0	less than ½	6 less.	102	13·0	37	952	35	34
	5. ENGLAND, SOUTH	0	-	6 less.	93	13·5	36	1026	34	36
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	1	2	5 less.	120	21·8	58	905	53	32
	7. ENGLAND, N.W.*	1	1	6 less.	109	15·8	61	883	55	31
	8. ENGLAND, S.W.	1	less than ½	7 less.	113	18·8	55	1032	52	37
	9. IRELAND, NORTH	1	1	6 less.	125	18·0	73	862	67	30
	10. IRELAND, SOUTH	0	-	7 less.	115	21·6	70	988	65	35
	— CHANNEL ISLANDS	0	-	5 less.	122	14·9	72	1271	69	45

General Remarks.

Weather has continued dry in all parts of the Kingdom, with clear skies over Ireland and the western coasts of Great Britain, but with much cloud or gloom in the east and south-east of England.

Temperature has exceeded the mean by 1° in "Scotland, W." and "Ireland, S.", and about equalled it in "England, S." and "Ireland, N.", but in all other districts it has been below, the deficit over the east of England and Scotland being 3°. The maxima, which were generally recorded either on the 28th or 29th, varied from 67° in the "Channel Islands" and between 68° and 72° over eastern and central England and the north of Scotland, to 77° in "Scotland, W.", 78° in "Ireland, S.", and 80° in "Ireland, N." The minima, which were registered on different days in the various districts, ranged from 39° in "England, N.W." and 40° in "Scotland, N.", to 44° in "Ireland, S.", 50° or 51° in the east and south of England, and to 55° in the "Channel Islands".

Rainfall has again been very slight or altogether absent.

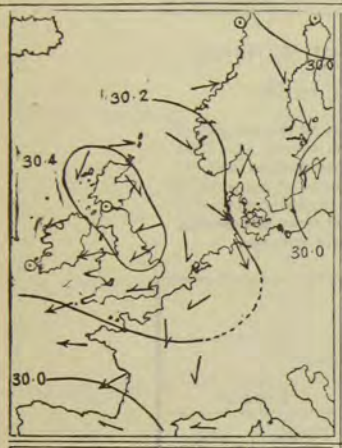
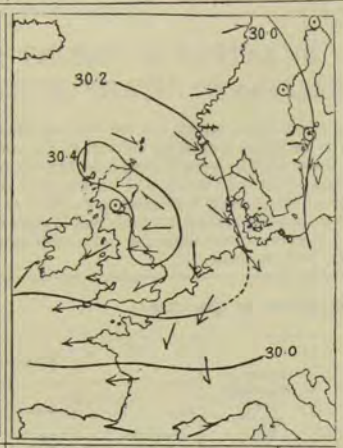
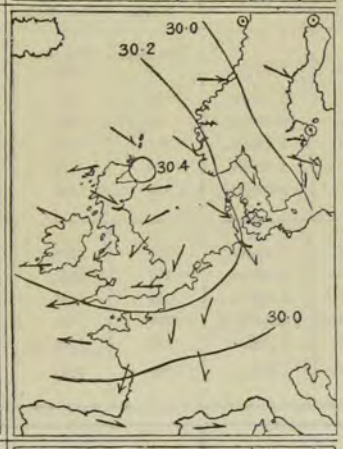
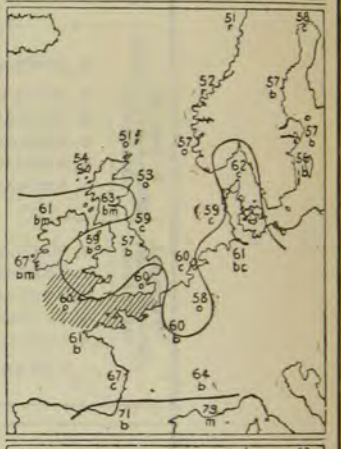
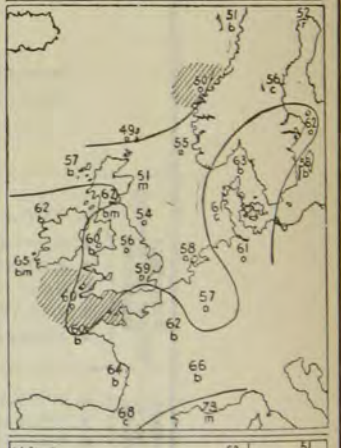
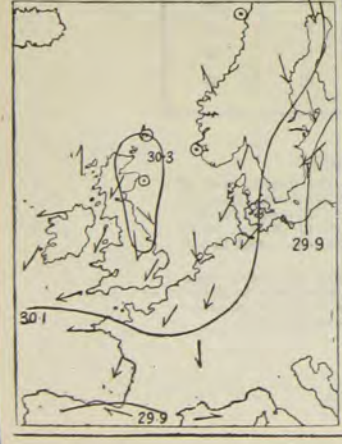
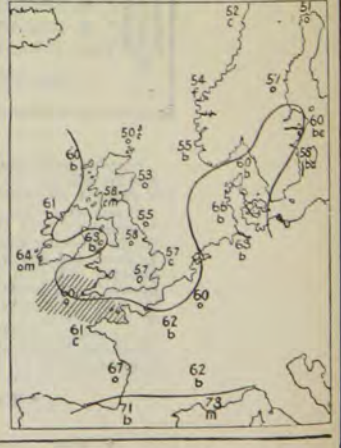
Bright sunshine shows a striking decrease over the greater part of England, but a decided increase over Ireland and Scotland. The percentages of the possible duration varied from 69 in the "Channel Islands" and between 65 and 67 in Ireland, to 55 in "England, N.W.", 46 in "Scotland, N.", 34 in "England, S.", 17 in "England, N.E.", and to 9 in "England, E."

Depressions observed.—The distribution of pressure was again anticyclonic and the only depressions shown in our area existed over the Baltic. Light or moderate North-Easterly or Easterly breezes were general in the more southern parts of the Kingdom, and variable airs in the north.

* The accumulated values in this district are liable to alteration owing to the non-arrival of the Return from Llandudno.

E 18480. 350.—S/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather. During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, July 28.** *Weather* cloudy at most of the English stations and also in the west of Norway, but generally fine elsewhere. Sky clearing over England later. *Temperature* fallen several degrees over Central and South-eastern England as well as in the north-east of France; readings ranging from 71° at Valencia to 51° at Sumburgh Head. Highest maxima 78° at Valencia, 74° at Hurst Castle, and 73° in London. *Wind* light from North-West in the east of Scotland and strong from the same quarter on the eastern shores of the North Sea, but moderate from East or North-East over England, Ireland, and France. *Sea* rather rough at Holyhead, Scilly, and Prawle Point; moderate to smooth elsewhere. *Barometer* rising at all but the Northern Scandinavian stations. Anticyclone lying over our north and north-east coasts, with relatively low pressures over the Baltic and south of France. Slight fall taking place over our Islands and France later.	
		**Wednesday, July 29.** *Weather* overcast at our southern and extreme northern stations, but fine elsewhere. Fine weather subsequently becoming general. *Temperature* risen a little over the northern parts of England and Ireland, but fallen slightly elsewhere; readings ranging from 67° at Valencia to 51° in the Shetlands. Highest maxima 76° at Parsonstown, 75° at Valencia, and 74° at Belmullet; thermometer over England not reaching 70°. *Wind* moderate from North or North-West on our north and east coasts, but fresh or strong from East and North-East at our southern and the French stations, and South-Easterly in the west. *Sea* rough at most of the Channel stations; moderate to smooth elsewhere. *Barometer* falling at all but the extreme south-western and southern stations. Distribution of pressure very similar to that of previous day. Slight fall taking place generally later.	
		Thursday, July 30. *Weather* dull in the eastern and central parts of Great Britain as well as in the west of Norway, but fine elsewhere. Sky clearing in east later, but drizzling rain falling at Yarmouth. *Temperature* fallen a little in most places; readings ranging from 65 at Valencia to 49° at Sumburgh Head and Wick. Highest maxima 75° at Belmullet and Valencia, 74° at Parsonstown, and 73° at Mullaghmore and in London. *Wind* moderate or fresh from North-West in Scandinavia and Denmark, and light from North on our north and north-east coasts, but fresh from East at our southern and the French stations. *Sea* rather rough at the mouth of the Channel, moderate to smooth elsewhere. *Barometer* rising a little on our western, southern, and the French coasts, but falling elsewhere. Anticyclone still lying over our Islands, with depression over the Gulf of Bothnia, and relatively low pressure in the south of France. Slight fall taking place generally later.	
		**Friday, July 31.** *Weather* cloudy in the eastern parts of Great Britain, but fine elsewhere. Cloud dispersing later. *Temperature* changed little and irregularly; readings ranging from 64° at Valencia to 50° in the Shetlands. Highest maxima 77° at Parsonstown, 74° at Valencia, 73° in London, and 72° at Belmullet. *Wind* strong Northerly in Sweden, and moderate from the same quarter in Denmark and the Netherlands, but fresh from the Eastward at our southern and the French stations, and light from South-East on our northern coasts. *Sea* rather rough at the mouth of the Channel, moderate to smooth elsewhere. *Barometer* rising on all but our north and north-east coasts. Central portion of anticyclone lying over east coasts of Great Britain, with relatively low pressures over the Baltic and south of France. Slight fall taking place generally later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

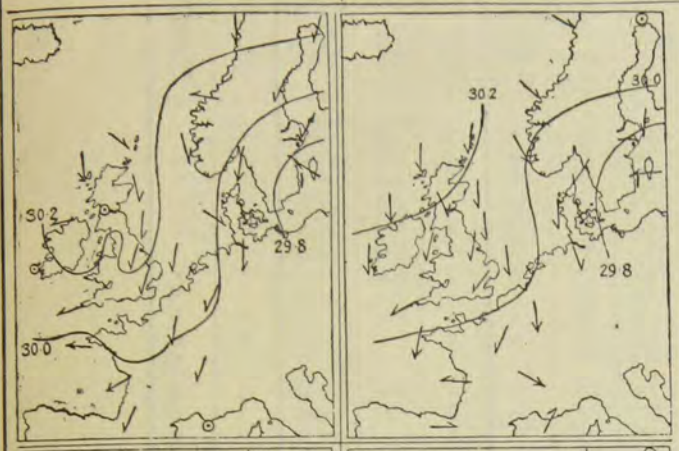
Weather

During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.



Saturday, August 1.

Weather fine on our western and south-western coasts as well as in the north of France, but cloudy or overcast elsewhere, with rain at Hernosand and Stornoway and thunder in the south of France.

Temperature risen a little in most places; readings ranging from 65° at Ardrossan and Roche's Point to 50° at Sumburgh Head. Highest maxima 76° at Parsonstown and Valencia, 73° at Ardrossan and Mullaghmore, and 72° at Hurst Castle.

Wind moderate from North and North-West over the North Sea, and fresh from North-East at our southern and the French stations, but light from East in the west of our Islands. Subsequently backing to North in Ireland.

Sea rather rough at Prawle Point, moderate to smooth elsewhere.

Barometer falling at all but our extreme north-west coasts. Anticyclone still lying over the north of our Islands with lowest pressures over the Baltic, but relatively low pressures in the south of France. Anticyclone moving slowly westwards later, and fall of barometer becoming general.

Sunday, August 2.

Weather dull at most of our eastern and northern stations, but fine elsewhere. Slight rain falling later on some parts of our north and north-west coasts.

Temperature fallen a little in our Islands, but risen at several of the continental stations; readings ranging from 67° at Valencia to 49° in the Shetlands. Thermometer subsequently rising to 75° at Valencia, but maxima on our extreme north and north-east coasts not reaching 60°.

Wind moderate Northerly on our north and east coasts, but Easterly or North-Easterly at our southern and the French stations.

Sea moderate to smooth.

Barometer rising slightly in France and the south of our Islands, but falling elsewhere. Central portion of anticyclone now lying over west of Scotland, with relatively low pressures over Baltic and south of France.

Monday, August 3.

Weather cloudy in most places, with rain at Stornoway and Shields. Rain falling later at many of our western and northern stations, largest amounts being 0·6 in. at Ardrossan, and 0·5 in. at Shields.

Temperature fallen slightly; readings ranging from 61° at Scilly and Jersey to 50° at Sumburgh Head, Stornoway, and Nairn. Maxima below 70° in all parts of our Islands, and below 60° at most of the northern stations.

Wind North-Westerly over the northern parts of Ireland and England, as well as on the eastern shores of the North Sea, but Northerly or North-Easterly elsewhere. Strong in force on our north-west coasts.

Sea rather rough at Stornoway and Malin Head, moderate to smooth elsewhere.

Barometer falling at all but the south-western and southern stations. Pressure highest off the west of Ireland, and lowest over the Baltic, but shallow local depressions appearing in various parts of England. Fall becoming general later.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 121 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	57	45	54·9	46·9	50·6	− 3·1	60	0	3	0·06	−0·53	*	*
	Stornoway	68	44	60·9	47·4	53·7	− 1·0	82	0	2	0·17	−0·53	52	46
	Wick	66	40	60·4	45·9	52·7	− 2·5	75	0	2	0·07	−0·46	*	*
1. SCOTLAND, E.	Nairn	75	43	64·6	47·1	55·2	− 2·4	92	0	3	0·21	−0·42	*	*
	Aberdeen	68	43	62·6	47·4	54·5	− 2·7	88	0	1	0·04	−0·61	47	42
	Leith	71	45	63·9	49·1	56·0	− 2·5	98	0	1	0·22	−0·38	*	*
2. ENGLAND, N.E.	Alnwick Castle	62	47	58·6	50·0	54·0	− 3·4	84	0	2	0·43	?	*	*
	Shields	63	45	59·1	51·4	55·0	− 3·2	91	0	3	0·55	−0·06	*	*
	Scarborough ℳ	62	51	59·6	53·4	56·2	− 3·2	99	0	1	0·08	−0·54	*	*
	York	69	42	65·3	51·0	57·7	− 3·3	110	0	0	—	−0·56	18	17
	Spurn Head	63	52	60·6	53·9	57·0	− 3·0	105	0	0	—	?	*	*
3. ENGLAND, E.	Hillington ℳ	65	51	63·4	53·6	58·2	− 2·2	113	0	1	0·02	−0·63	5	5
	Yarmouth	63	54	62·0	55·4	58·5	− 2·7	116	0	2	0·04	−0·55	*	*
	Geldeston	64	50	62·0	54·0	57·7	− 3·5	110	0	0	—	−0·54	6	6
	Cambridge	71	51	67·3	54·0	60·2	− 2·4	127	0	1	0·01	−0·51	18	15
	Rothamsted	70	52	65·5	53·4	59·0	− 3·2	119	0	0	—	−0·60	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	69	43	66·9	48·3	57·0	− 4·3	105	0	0	—	−0·64	*	*
	Loughborough	72	48	68·0	52·7	59·8	− 2·1	125	0	1	0·01	−0·64	*	*
	Leicester	72	49	69·2	53·1	60·6	− 1·3	130	0	0	—	−0·65	36	33
	Cheadle ℳ	69	48	64·6	50·7	57·2	− 2·9	106	0	0	—	?	*	*
	Churchstoke ℳ	70	43	66·6	47·5	56·4	− 3·7	101	0	0	—	?	41	38
	Hereford ℳ	72	49	69·1	51·5	59·7	− 1·8	124	0	0	—	−0·65	*	*
	Cirencester	70	49	67·7	52·0	59·3	− 1·9	121	0	1	0·22	−0·49	35	33
	Oxford	71	53	67·0	54·7	60·4	− 1·0	129	0	0	—	−0·57	36	34
5. ENGLAND, S.	London†	73	54	69·1	56·1	62·2	− 1·1	141	0	0	—	−0·53	28	26
	Marlborough ℳ	72	51	67·8	53·3	60·1	− 0·3	127	0	0	—	−0·66	36	34
	Strathfield Turgiss ℳ	75	53	?71·6	55·1	62·8	+ 1·4	146	0	0	—	−0·52	*	*
	Dungeness	72	55	67·1	56·9	61·6	− 0·1	137	0	0	—	?	*	*
	Hastings (St. Leonard's)	74	53	69·1	55·7	61·9	+ 0·5	139	0	0	—	−0·47	28	26
	Southampton	75	52	71·8	54·3	62·4	+ 0·8	143	0	0	—	−0·63	53	50
	Hurst Castle	75	53	71·4	55·1	62·7	+ 1·4	145	0	0	—	−0·53	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	73	43	67·8	47·0	56·7	− 0·1	103	0	1	0·25	?	*	*
	Glasgow	77	49	70·6	50·9	60·1	+ 2·4	127	0	1	0·06	−0·78	44	40
	Ardrossan	73	51	68·6	51·7	59·6	+ 1·9	123	0	1	0·62	−0·15	*	*
	Douglas (Isle of Man)	73	46	66·8	49·9	57·8	+ 0·1	111	0	1	0·01	−0·69	71	65
7. ENGLAND, N.W.	Newton Reigny (Penrith)	74	39	67·5	45·3	55·6	− 2·8	95	0	2	0·22	?	62	56
	Barrow-in-Furness	68	52	65·4	53·7	59·1	− 0·7	120	0	1	0·03	?	*	*
	Stonyhurst	72	45	67·7	49·9	58·2	− 1·0	113	0	0	—	−1·05	56	51
	Blackpool ℳ	71	43	67·2	48·2	57·0	− 3·3	105	0	0	—	−0·61	64	59
	Manchester	71	46	66·5	50·9	58·2	− 2·3	113	0	2	0·07	−0·73	*	*
	Liverpool Obsy (Bidston)	70	50	67·3	52·9	59·6	− 1·0	123	0	1	0·13	−0·52	*	*
	Llandudno ℳ													
	Holyhead	76	48	67·4	53·9	60·2	+ 0·6	127	0	1	0·01	−0·54	*	*
8. ENGLAND, S.W.	Llandovery	76	41	71·9	48·3	59·0	− 1·6	119	0	1	0·02	?	*	*
	Pembroke	68	51	63·9	53·9	58·6	− 1·2	116	0	1	0·02	−0·56	66	62
	Arlington (N. Devon)	69	49	66·0	52·0	58·5	− 2·1	116	0	1	0·07	?	*	*
	Cullompton ℳ	74	44	70·4	52·0	60·6	− 1·0	130	0	0	—	?	46	43
	Falmouth	68	52	64·9	55·3	59·8	− 1·4	125	0	0	—	−0·80	48	46
	Plymouth	73	52	69·3	55·1	61·7	0·0	138	0	0	—	−0·65	58	55
	Prawle Point	70	53	65·7	55·0	60·0	− 1·8	126	0	0	—	?	*	*
9. IRELAND, N.	Malin Head	69	51	62·9	54·6	58·3	− 1·6	114	0	2	0·06	?	*	*
	Londonderry	80	46	71·7	48·0	59·0	+ 0·5	119	0	2	0·33	−0·45	*	*
	Mullaghmore	73	53	68·9	56·0	62·0	+ 2·6	140	0	0	—	?	*	*
	Belmullet	75	54	68·6	55·3	61·5	+ 3·8	137	0	2	0·11	?	*	*
	Markree Castle	77	42	71·3	46·5	58·0	− 1·6	112	0	1	0·02	−0·76	78	72
	Brookeborough	79	44	72·0	47·0	58·6	− 1·1	116	0	0	—	?	*	*
	Armagh	77	47	70·4	48·6	58·7	− 1·1	117	0	1	0·13	−0·52	67	61
	Donaghadee	68	47	64·9	50·6	57·3	− 0·9	107	0	1	0·36	−0·28	*	*
	Edgeworthstown	77	47	70·1	50·3	59·5	− 0·2	123	0	0	—	?	*	*
10. IRELAND, S.	Dublin	72	51	67·4	54·1	60·5	+ 0·7	130	0	1	0·12	−0·48	62	57
	Parsonstown	77	45	73·1	49·6	60·6	+ 1·2	130	0	0	—	−0·72	70	65
	Kilkenny	75	47	69·9	51·4	60·0	− 0·1	126	0	0	—	?	*	*
	Waterford	72	47	68·9	51·7	59·7	− 0·9	124	0	0	—	−0·66	*	*
	Roche's Point	75	50	68·3	53·9	60·6	− 0·1	130	0	0	—	−0·73	*	*
	Valencia	78	50	73·9	54·1	63·3	+ 4·1	149	0	1	0·01	−0·89	79	74
	Killarney	78	44	71·8	50·2	60·3	+ 0·7	128	0	1	0·01	?	*	*
	Foynes	75	48	69·6	51·6	60·0	+ 1·0	126	0	0	—	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	56	64·1	57·1	60·4	− 0·5	129	0	0	—	−0·47	*	*
	Jersey (Noirmont)	67	55	66·3	57·0	61·3	− 0·7	135	0	0	—	−0·53	72	69

Stations marked ℳ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 32.] *New Series.* WEEK ENDING MONDAY, 10TH AUGUST, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 128.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	63	46	57·7	49·8	53·5	1 below.	81	966	0	528
	1. SCOTLAND, EAST	66	44	61·5	51·1	56·0	2 below.	98	1428	0	565
	2. ENGLAND, N.E.	72	48	63·0	53·0	57·7	1 below.	110	1503	0	455
	3. ENGLAND, EAST	77	43	67·2	51·9	59·1	2 below.	120	1782	0	559
	4. MIDLAND COUNTIES	75	41	66·6	50·5	58·1	3 below.	113	1766	0	558
	5. ENGLAND, SOUTH	77	37	68·6	53·2	60·4	1 below.	129	1949	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	69	44	62·5	51·3	56·6	1 below.	102	1373	0	453
	7. ENGLAND, N.W.	69	43	63·0	51·3	56·8	3 below.	104	1497 *	0	425
	8. ENGLAND, S.W.	71	40	64·2	50·3	56·8	4 below.	194	1710	0	331
	9. IRELAND, NORTH	69	45	61·7	50·7	55·9	3 below.	97	1506	0	407
	10. IRELAND, SOUTH	71	44	62·5	50·8	56·3	3 below.	100	1729	0	328
	— CHANNEL ISLANDS	73	50	64·6	54·6	59·3	2 below.	121	1850	0	106

	DISTRICTS. (See p. 128.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	7	1 more.	151	18·8	16	831	15	28
	1. SCOTLAND, EAST	6	10	4 more.	110	13·2	18	971	17	32
	2. ENGLAND, N.E.	5	14	8 more.	108	13·2	?16	710	?15	24
	3. ENGLAND, EAST	3	5	1 less.	101	12·7	26	1050	25	36
	4. MIDLAND COUNTIES	6	12	6 more.	108	14·2	29	981	28	33
	5. ENGLAND, SOUTH	4	3	3 less.	97	13·8	39	1065	38	36
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	17	10 more.	125	23·5	27	932	25	31
	7. ENGLAND, N.W.	7	12	5 more.	116	17·0	22	907 *	20	31
	8. ENGLAND, S.W.	5	10	2 more.	118	19·8	38	1070	37	37
	9. IRELAND, NORTH	6	9	2 more.	131	18·9	15	877	14	30
	10. IRELAND, SOUTH	6	19	11 more.	121	23·5	27	1015	26	34
	— CHANNEL ISLANDS	6	6	1 more.	128	15·5	58	1329	56	46

General Remarks.

Weather has been very cloudy or dull in all parts of the Kingdom, with rather heavy falls of rain in most places, accompanied in some localities by thunder and lightning.

Temperature has been below the mean in all districts, the deficit varying from 1° in "Scotland, N.", "England, N.E.", "England, S.", and "Scotland, W.", to 3° in Ireland and over central and north-western England, and to 4° in "England, S.W." The maxima, which were generally registered on the 10th, varied between 63° and 69° in Scotland, between 69° and 71° in Ireland, and from 71° to 77° in most of the English districts. The minima were recorded either on the 6th or 7th, when the thermometer fell to 37° in "England, S." (at Marlborough), to 40° in "England, S.W.", and to between 41° and 50° elsewhere.

Rainfall has been rather less than the mean in "England, E." and "England, S.", but more in all other districts, the excess over northern and central England, in the south of Ireland, and west of Scotland being considerable.

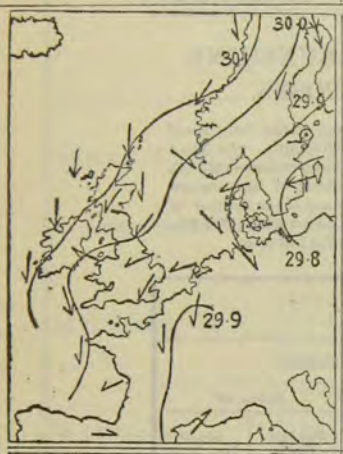
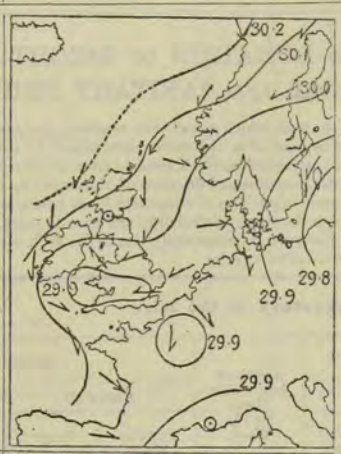
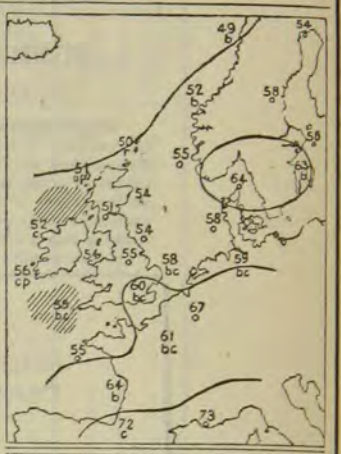
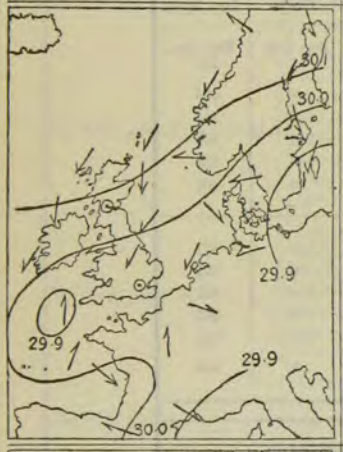
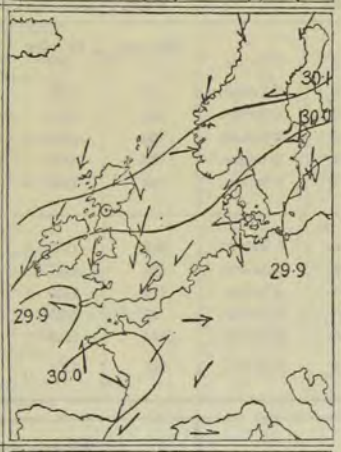
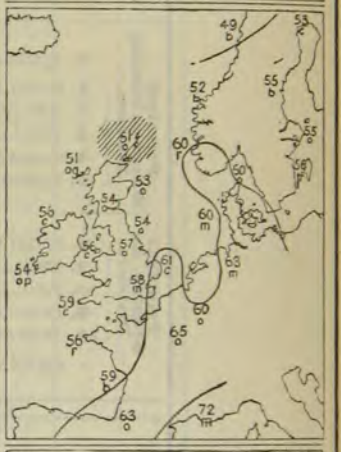
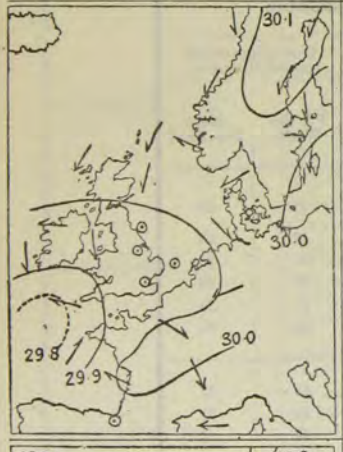
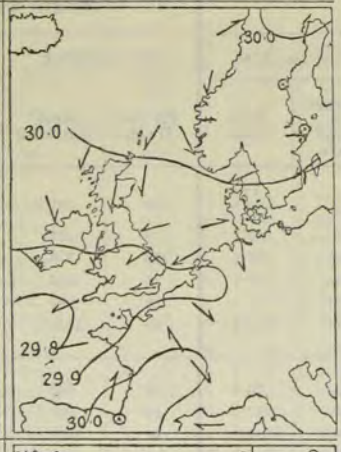
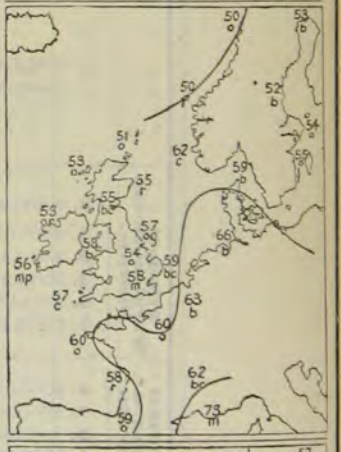
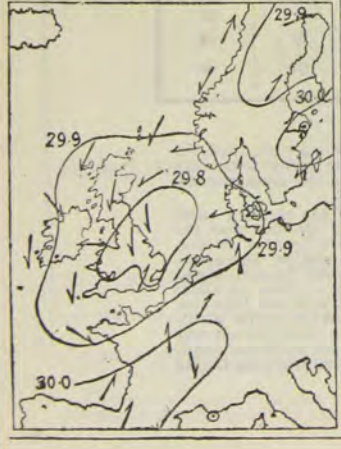
Bright sunshine has been less prevalent than for some time past, the percentages of the possible amount of duration varying from 15 to 25 in the more northern parts of the Kingdom, to 37 or 38 in the south-west and south of England, and to 56 in the "Channel Islands".

Depressions observed.—At the commencement of the period a small shallow depression was moving in a south-westerly direction over the St. George's Channel, finally disappearing to the southward of Ireland. This was succeeded by numerous small and very shallow depressions, which, after forming a large low pressure system over England, moved slowly away to the eastwards. During the prevalence of these conditions North-Easterly winds were general in the north and west, and light airs, chiefly from the Westward, in the south. By 8 A.M. on the 9th the distribution had undergone a decided change, the barometer being highest over France, while deep depressions passed along our west and north-west coasts. The wind became South-Westerly or Southerly generally, and on the 9th and 10th, it blew a gale in the west and north.

* This value has been altered slightly owing to the receipt of some arrears of observations.

E 18565. 350.—8/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, August 4.** *Weather* showery at several of the Irish and Scotch stations, but generally fair in other localities, with, however, a good deal of cloud locally. Rain falling later in many parts of the Kingdom, the largest amounts being one inch at Holyhead, 0·7 inch at Dublin, and 0·5 inch at Parsonstown. *Temperature* fallen a little on our western coasts, but risen slightly elsewhere; readings ranging from 61° at Hurst Castle to 50° at Sumburgh Head, Malin Head, and Donaghadee. *Wind* North-Westerly on our south-west coasts, but Northerly or North-Easterly elsewhere; light or moderate in force in most places, but strong to a gale in the north of Ireland. Subsequently backing to West over the Channel. *Sea* rather rough off the north of Ireland as well as at Scilly; moderate to smooth elsewhere. *Barometer* falling at all but the Scandinavian and Danish stations. Pressure highest to the westward and north-westward of our Islands and lowest over the Baltic, but a small shallow depression lying over Cardigan Bay. No important change later.	
		**Wednesday, August 5.** *Weather* fine in the north of Scandinavia and extreme south of England, but cloudy or overcast elsewhere, with passing showers at Valencia. Thunderstorms occurring in south of England later, and rain falling in most parts of the Kingdom, the largest amounts being 2·0 inches at Seaham, 1·7 inch at Shields, and 0·7 inch at Donaghadee. *Temperature* risen a little on our north-west coasts, but changed irregularly elsewhere; readings ranging from 61° at Hurst Castle to 50° at Wick. Maxima below 70° in all places, and below 60° in the north of Scotland. *Wind* South-Westerly or Southerly on our southern coasts, but North-Easterly or Northerly elsewhere; light or moderate in force generally. *Sea* rather rough at Sumburgh Head; slight or smooth elsewhere. *Barometer* falling a little on our extreme south-west coasts, but rising in nearly all other localities. Pressure highest to the northward of our Islands, with a shallow disturbance at the mouth of the St. George's Channel. Depression moving southwards later, but slight fall of barometer taking place on our northern coasts.	
		**Thursday, August 6.** *Weather* fine in Denmark and the Netherlands as well as in the north-west of England, but cloudy elsewhere, with rain at several of the Irish and Scotch stations. Thunderstorms occurring later in nearly all parts of the Kingdom, with heavy rain in many places. *Temperature* changed irregularly; readings ranging from 68° at Jersey to 51° in the Shetlands. *Wind* light or moderate from North-East or East on our western and northern coasts, but calm in the south-east of England, and moderate from South-West in the north-west of France. Easterly breeze setting in at our south-eastern stations later. *Sea* moderate to smooth. *Barometer* falling at all but the Scandinavian and Danish stations. Pressure highest in the north of Scandinavia, and small depression of previous day passing away to the south-westward of our Islands, but other shallow disturbances forming over various parts of the Kingdom.	
		**Friday, August 7.** *Weather* fine at the Swedish and French stations, but cloudy or overcast elsewhere, with rain on several parts of our north and north-west coasts. Showers falling later in most parts of the Kingdom, with thunderstorms at many of the English stations. *Temperature* risen slightly; readings ranging from 61° in London and at Cambridge to 51° at Parsonstown. *Wind* light or moderate from the North-Eastward on our northern and the Norwegian coasts, but South-Westerly over the Channel and France, and variable at our more central stations. Blowing fresh breeze from West in Channel later. *Sea* moderate to smooth. *Barometer* falling at all but our south-western and the French stations. Pressure highest over France, with large shallow depression lying over eastern and central England. Depression moving eastwards later, and barometer rising a little in south-east.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

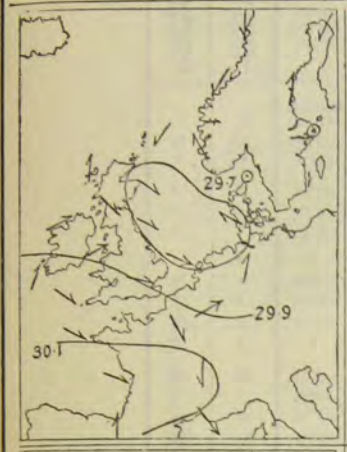
Weather

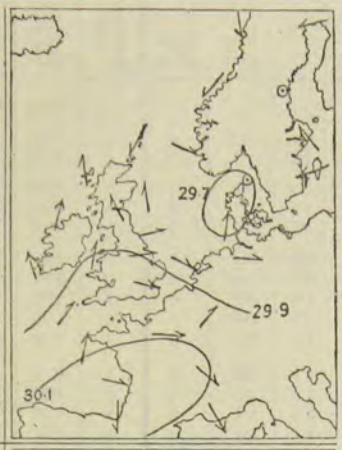
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Saturday, August 8.

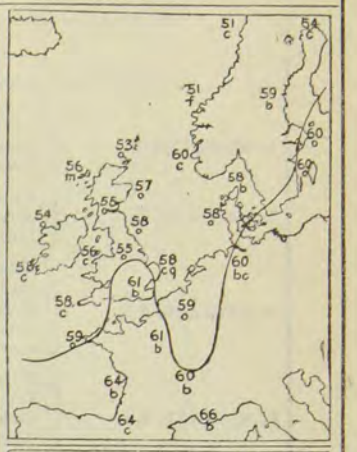
Weather fine at most of our southern and the French stations, but cloudy or overcast elsewhere, with rain at Nairn and passing showers at Spurn Head. Showers falling later in many parts of the Kingdom.

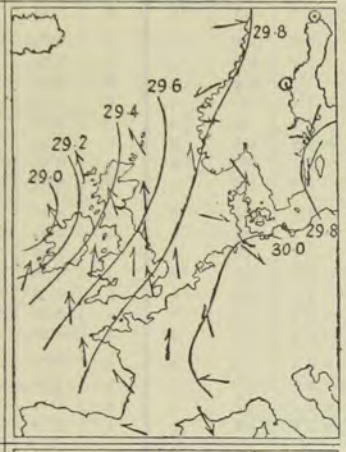
Temperature risen a little over England and the west of France but fallen elsewhere; readings ranging from 63° at Hurst Castle to 53° in the Shetlands.

Wind light from South-East on the eastern shores of the North Sea and moderate from North-West on our north-east coasts, but strong from the Westward on our south and south-east coasts, and moderate South-Westerly in the west of Ireland. Subsequently backing to South in Ireland and increasing to strong breeze.

Sea moderate to smooth.

Barometer falling at all but our southern and the French stations. Large shallow depression of previous day now lying over the North Sea. Rise taking place over Great Britain late, but brisk fall setting in over Ireland.





Sunday, August 9.

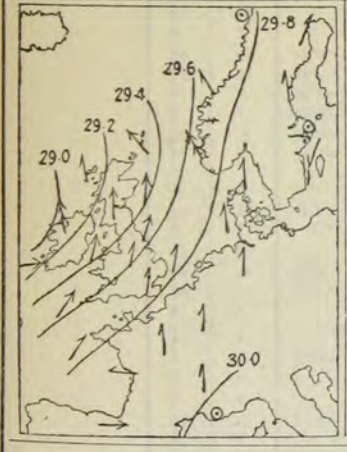
Weather dull and rainy at most of our western stations, but fair in the east and south. Rain extending to our northern coasts later.

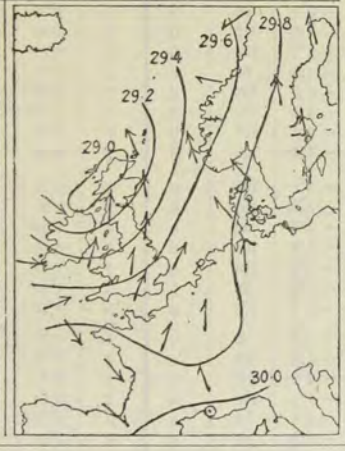
Temperature fallen at our southern and most of the Continental stations, but risen elsewhere; readings ranging from 63° at Valencia and Scilly to 55° at Sumburgh Head, Wick, Ardrossan, Barrow-in-Furness, and Liverpool.

Wind South-Easterly or Easterly in the north of Scotland, and North-Westerly on the eastern shores of the North Sea, but Southerly or South-Westerly elsewhere; strong in force on our western coasts, with fresh to whole gales in Ireland. Fresh Southerly gale in Scotland at night.

Sea high at Valencia and rough on our western coasts generally.

Barometer rising a little in Scandinavia, Denmark, and the south-east of England, but falling rapidly in Ireland. Anticyclone lying over France and deep depression off the west of Ireland. Fall becoming general later, but rise taking place at Valencia in afternoon.





Monday, August 10.

Weather rainy in the west and north of Ireland, but generally fair in other localities. Rain extending later to all but our central and south-eastern stations, with slight thunderstorm at Wick. Lightning in south of England at night.

Temperature risen at all but the Irish stations; readings ranging from 68° at Yarmouth to 55° at Malin Head and Mullaghmore. Highest maxima 77° at Cambridge, and 73° at Loughborough and Yarmouth.

Wind South-Easterly in Norway and the north of Scotland, but Southerly or South-Westerly elsewhere; strong in force in the west and north-west, fresh gales at Malin Head and Mullaghmore. Subsequently veering to west or north-west in Ireland.

Sea rough on our west and south-west coasts, and rather rough at Sumburgh Head.

Barometer falling at all but the Scandinavian stations. Deep depression still lying off west of Ireland, with highest pressures in the south-east of France. Depression moving north-eastwards later, and brisk rise of barometer taking place in Ireland.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 125 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	60	46	55·9	49·0	52·2	− 1·7	71	0	4	0·73	+0·05	*	*
	Stornoway	63	46	59·0	50·4	54·4	− 0·3	87	0	4	0·81	+0·08	16	15
	Wick	63	47	58·3	49·9	53·9	− 1·2	83	0	6	0·67	+0·12	*	*
1. SCOTLAND, E.	Nairn	64	48	60·7	51·4	55·8	− 1·3	97	0	7	0·88	+0·23	*	*
	Aberdeen	64	44	61·1	50·6	55·5	− 1·4	95	0	6	0·82	+0·12	18	17
	Leith	66	48	62·6	51·3	56·6	− 1·7	102	0	5	1·28	+0·69	*	*
2. ENGLAND, N.E.	Alnwick Castle	67	49	62·1	52·3	56·9	0·0	104	0	3	0·80	?	*	*
	Shields	68	50	62·1	52·6	57·1	− 0·7	106	0	5	2·51	+1·90	*	*
	Scarborough ℞	69	51	62·0	53·7	57·6	− 1·6	109	0	7	1·37	+0·76	*	*
	York	70	48	65·7	52·0	58·4	− 2·0	115	0	6	1·16	+0·58	?16	?15
	Spurn Head	72	52	63·1	54·3	58·4	− 1·4	115	0	3	0·93	?	*	*
3. ENGLAND, E.	Hillington ℞	77	45	68·0	50·8	58·9	− 1·5	118	0	1	0·58	−0·04	16	15
	Yarmouth	73	52	65·4	54·7	59·7	− 1·3	124	0	3	0·31	−0·23	*	*
	Geldeston	72	43	66·0	50·8	57·9	− 3·1	111	0	3	0·13	−0·36	25	24
	Cambridge	77	49	69·9	51·6	60·2	− 2·2	127	0	3	0·52	+0·01	37	35
	Rothamsted	73	48	66·7	51·8	58·8	− 3·1	118	0	6	0·69	+0·09	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	75	45	67·7	50·0	58·3	− 2·4	114	0	5	0·73	+0·13	*	*
	Loughborough	73	47	68·7	51·3	59·5	− 2·1	123	0	5	1·34	+0·79	*	*
	Leicester	74	46	68·7	52·9	60·3	− 1·4	128	0	6	1·49	+0·84	29	27
	Cheadle ℞	67	46	63·1	49·8	56·1	− 3·8	99	0	7	1·11	?	*	*
	Churchstoke ℞	68	41	63·1	47·2	54·7	− 5·2	89	0	6	3·37	?	30	28
	Hereford ℞	71	45	67·9	50·4	58·6	− 2·8	116	0	6	0·91	+0·34	*	*
	Cirencester	70	44	66·4	49·7	57·6	− 3·3	109	0	4	0·32	−0·43	29	28
	Oxford	72	48	67·0	52·6	59·4	− 2·0	122	0	5	0·57	−0·10	28	27
5. ENGLAND, S.	London†	73	48	70·0	52·6	60·8	− 2·1	132	0	4	0·19	−0·35	37	36
	Marlborough ℞	70	37	68·7	49·6	58·6	− 1·5	116	0	4	0·13	−0·56	37	36
	Strathfield Turgiss ℞	77	50	73·3	53·8	63·0	+ 1·7	147	0	4	0·07	−0·44	*	*
	Dungeness	68	46	66·4	54·7	60·2	− 1·5	127	0	3	0·48	?	*	*
	Hastings (St. Leonard's)	68	51	65·1	54·8	59·6	− 1·9	123	0	5	0·50	−0·01	42	40
	Southampton	73	42	69·5	52·1	60·3	− 1·4	128	0	4	0·34	−0·29	41	39
	Hurst Castle	70	48	67·0	54·7	60·5	− 0·8	130	0	4	0·25	−0·29	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	69	46	63·8	50·9	57·0	+ 0·1	105	0	3	1·03	?	*	*
	Glasgow	68	47	62·9	51·4	56·8	− 0·8	104	0	5	1·66	+0·81	22	20
	Ardrossan	66	46	61·4	51·0	55·9	− 1·8	97	0	6	2·44	+1·57	*	*
	Douglas (Isle of Man)	64	44	61·8	52·0	56·6	− 1·1	102	0	5	1·46	+0·66	31	29
7. ENGLAND, N.W.	Newton Reigny (Penrith)	69	43	61·8	49·3	55·2	− 3·0	92	0	6	1·56	?	18	17
	Barrow-in-Furness	65	53	62·3	54·1	58·0	− 1·9	112	0	6	1·00	?	*	*
	Stonyhurst	67	46	63·4	51·3	57·0	− 2·2	105	0	6	0·79	−0·27	16	15
	Blackpool ℞	67	43	63·5	49·4	56·0	− 4·3	98	0	6	1·00	+0·42	25	23
	Manchester	67	43	63·6	50·5	56·7	− 3·6	103	0	7	0·75	−0·05	*	*
	Liverpool Obsy (Bidston)	69	48	63·9	51·7	57·4	− 3·2	108	0	7	1·09	+0·47	*	*
	Llandudno ℞	68	47	63·5	51·7	57·3	− 3·3	107	0	7	0·65	+0·05	27	25
	Holyhead	66	49	61·9	52·6	57·0	− 2·7	105	0	7	2·59	+1·99	*	*
8. ENGLAND, S.W.	Llandovery	71	41	67·3	48·7	57·4	− 3·0	108	0	5	1·12	?	*	*
	Pembroke	64	47	61·0	52·1	56·3	− 3·3	100	0	5	1·36	+0·71	31	30
	Arlington (N. Devon)	64	41	62·4	47·4	54·5	− 5·7	88	0	4	1·49	?	*	*
	Cullompton ℞	69	40	66·3	48·5	56·9	− 4·6	104	0	5	0·68	?	36	35
	Falmouth	65	46	63·6	51·4	56·7	− 4·3	103	0	7	1·25	+0·40	47	46
	Plymouth	68	44	65·3	51·7	58·1	− 3·6	113	0	5	0·69	−0·01	38	37
	Prawle Point	68	46	63·6	52·3	57·6	− 2·1	109	0	5	0·19	?	*	*
9. IRELAND, N.	Malin Head	66	49	59·3	51·6	55·2	− 1·9	92	0	5	0·31	?	*	*
	Londonderry	69	47	63·9	50·7	56·9	− 1·6	104	0	6	0·81	+0·01	*	*
	Mullaghmore	68	51	61·4	52·1	56·5	− 2·8	102	0	7	0·74	?	*	*
	Belmullet	64	50	60·4	52·6	56·3	− 1·4	100	0	5	0·76	?	*	*
	Markree Castle	68	46	62·2	49·6	55·5	− 3·8	15	0	6	0·77	−0·03	15	14
	Brookeborough	67	46	61·6	49·4	55·1	− 4·4	92	0	6	1·20	?	*	*
	Armagh	68	46	62·9	50·0	56·1	− 3·4	99	0	5	1·04	+0·43	15	14
	Donaghadee	65	48	60·9	51·4	55·9	− 2·2	97	0	5	1·40	+0·75	*	*
	Edgeworthstown	67	45	62·6	49·1	55·5	− 4·0	95	0	5	0·90	?	*	*
10. IRELAND, S.	Dublin	66	45	62·9	51·4	56·8	− 2·7	104	0	6	2·12	+1·48	31	29
	Parsonstown	67	44	62·6	49·6	55·7	− 3·3	96	0	5	1·59	+0·83	19	18
	Kilkenny	67	45	62·6	50·4	56·1	− 2·9	90	0	5	1·51	?	*	*
	Waterford	71	44	63·9	48·7	55·8	− 3·7	97	0	6	1·90	+1·18	*	*
	Roche's Point	66	48	63·0	51·6	57·0	− 2·9	105	0	7	1·77	+0·99	*	*
	Valencia	64	49	62·1	52·1	56·8	− 2·2	104	0	7	1·96	+0·98	31	30
	Killarney	66	45	61·7	50·5	55·8	− 3·7	97	0	7	2·86	?	*	*
	Foynes	68	50	61·4	52·0	56·4	− 2·1	101	0	7	1·41	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	50	63·1	54·0	58·3	− 2·6	114	0	7	0·95	+0·45	*	*
	Jersey (Noirmont)	73	51	66·0	55·1	60·2	− 1·8	127	0	4	0·18	−0·34	58	56

Stations marked ℞ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 33.] *New Series.* WEEK ENDING MONDAY, 17TH AUGUST, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 132.)	Temperature of the Air.									
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.			
				Averages of				Above 42°		Below 42°	
		Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.		For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
	0. SCOTLAND, NORTH	63	32	55·9	45·1	50·2	4 below.	57	1023	0	528
Principal Wheat-producing Districts.	1. SCOTLAND, EAST	70	38	62·4	46·1	53·8	3 below.	83	1511	0	565
	2. ENGLAND, N.E.	75	39	64·0	48·4	55·7	3 below.	96	1599	0	455
	3. ENGLAND, EAST	78	37	69·3	47·0	57·6	4 below.	109	1891	0	559
	4. MIDLAND COUNTIES	77	36	67·9	46·5	56·6	4 below.	102	1868	0	558
	5. ENGLAND, SOUTH	83	35	70·0	50·3	59·6	2 below.	123	2072	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	68	35	59·8	46·7	52·8	5 below.	76	1449	0	453
	7. ENGLAND, N.W.	69	35	61·9	48·7	54·9	5 below.	90	1587	0	425
	8. ENGLAND, S.W.	77	34	65·9	49·0	56·9	3 below.	104	1814	0	331
	9. IRELAND, NORTH	73	33	62·0	47·5	54·4	4 below.	87	1593	0	407
	10. IRELAND, SOUTH ‡	74	35	64·8	48·2	56·0	4 below.	98	1827	0	328
	— CHANNEL ISLANDS	75	51	66·1	55·0	60·2	1 below.	127	1977	0	106

	DISTRICTS. (See p. 132.)	Rainfall.					Bright Sunshine.			
		For the Week.			Since Dec. 30/84.		Hours recorded.		Percentage of the possible Duration.	
		Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Number of Rainy Days.	Total Fall.	For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
	0. SCOTLAND, NORTH	7	6	1 less.	158	19·4	40	871	37	28
Principal Wheat-producing Districts.	1. SCOTLAND, EAST	4	9	2 more.	114	14·1	42	1013	40	33
	2. ENGLAND, N.E.	1	2	4 less.	109	13·4	†	†	†	†
	3. ENGLAND, EAST	1	2	4 less.	102	12·9	62	1112	61	36
	4. MIDLAND COUNTIES	1	3	4 less.	109	14·5	61	1043 *	60	34
	5. ENGLAND, SOUTH	2	1	5 less.	99	13·9	66	1131	65	37
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	3	7	2 less.	128	24·2	48	980	46	32
	7. ENGLAND, N.W.	2	5	2 less.	118	17·5	50	957	48	31
	8. ENGLAND, S.W.	2	3	5 less.	120	20·1	64	1134	63	37
	9. IRELAND, NORTH	3	7	1 less.	134	19·6	37	914	36	30
	10. IRELAND, SOUTH ‡	2	3	6 less.	123	23·8	54	1069	53	35
	— CHANNEL ISLANDS	2	2	4 less.	130	15·7	78	1407	78	47

General Remarks.

Weather was rough and unsettled during the earlier days of the period, with very heavy rain in some parts of Scotland and the north-west of England, and a few showers over Ireland and the south and east of England. As the week progressed, however, the sky cleared, and fine dry weather became general.

Temperature has been below the mean in all districts, the deficit varying from 1° in the "Channel Islands" and 2° in "England, S.", to 3°, 4°, or 5°, elsewhere. The highest of the maxima were registered either on the 16th or 17th, when they varied from 83° in "England, S.", and between 73° and 78° in most other districts, to 63° in "Scotland, N." The minima, which were generally recorded during the early morning of the 15th, were as low as 32° in "Scotland, N.", 33° in "Ireland, N.", and 34° in "England, S.W.", while elsewhere they varied from 35° in the southern and north-western parts of England and in the south of Ireland, to 39° in "England, N.E." and to 51° in the "Channel Islands". On the grass the readings were much lower, frost being experienced over the inland parts of the country.

Rainfall has been more than the mean in "Scotland, E." but less in all other districts.

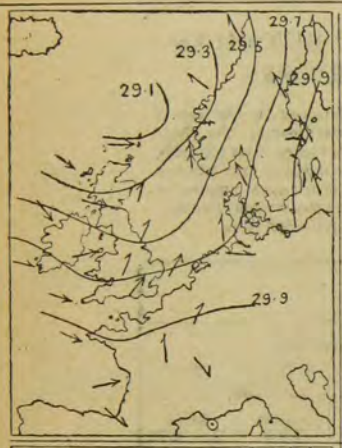
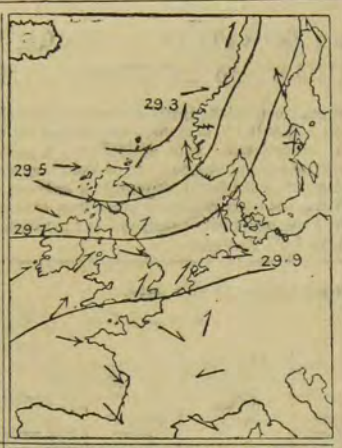
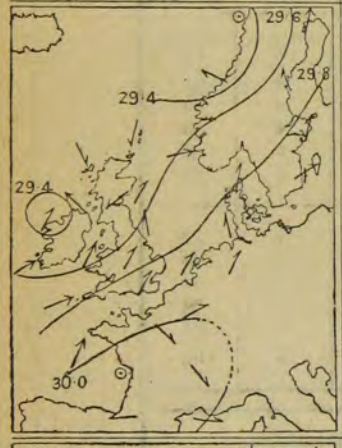
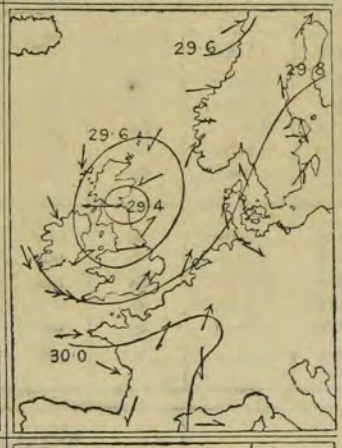
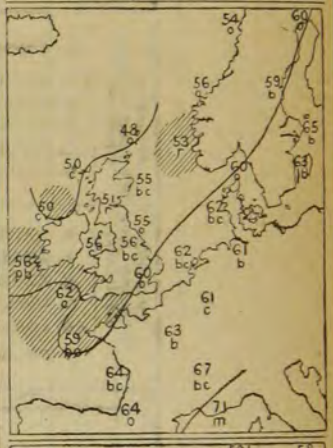
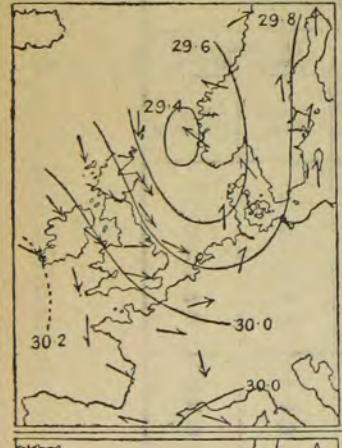
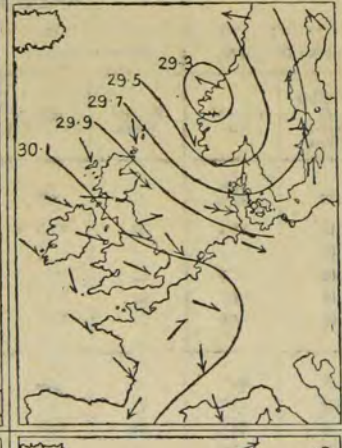
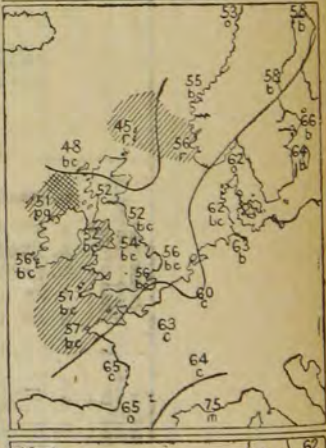
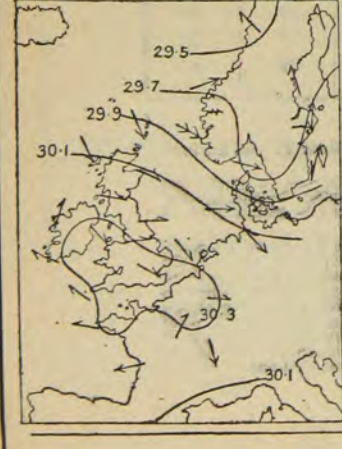
Bright sunshine shows a decided increase in all districts, the percentages of the possible amount of duration ranging from 36 in "Ireland, N." and 37 in "Scotland, N.", to between 60 and 65 over the greater part of England, and to 78 in the "Channel Islands".

Depressions observed.—During the earlier part of this period the distribution of pressure continued similar to that of the close of last week, the barometer being highest over France, while depressions travelled in an easterly or north-easterly direction over the northern parts of the Kingdom. Strong winds from between South and West prevailed on all our coasts; gales were experienced in many places, and in some parts of Scotland the force of a strong or whole gale was attained. By the 14th, however, these depressions were disappearing, and from this time till the close of the period, the conditions were anticyclonic and the winds light and variable on all our coasts.

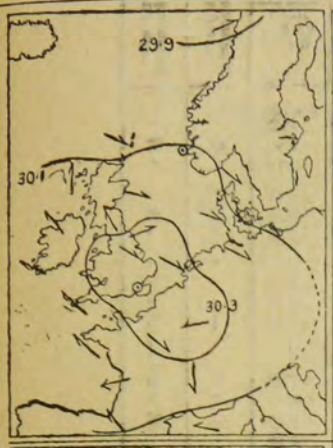
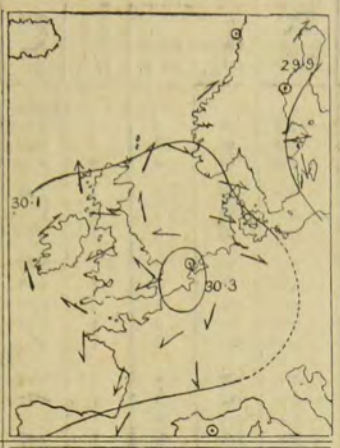
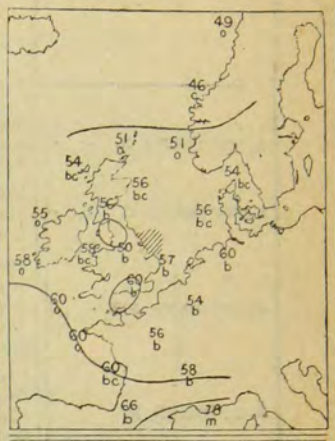
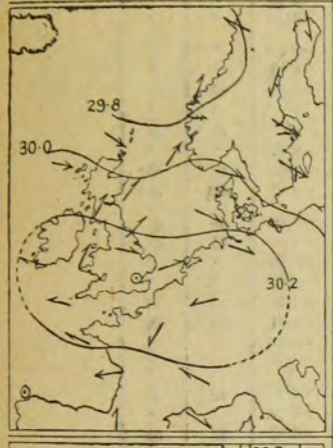
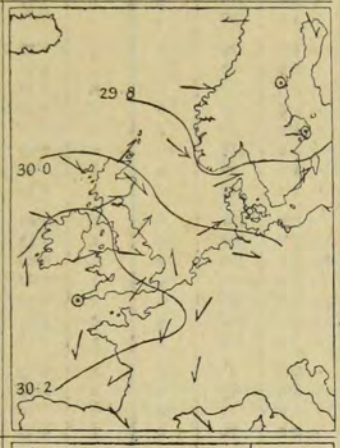
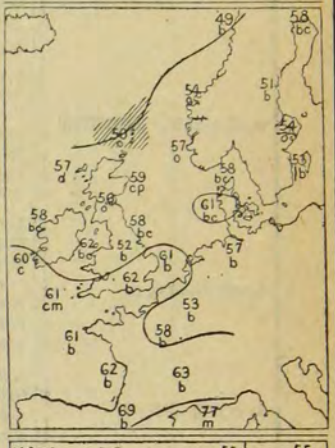
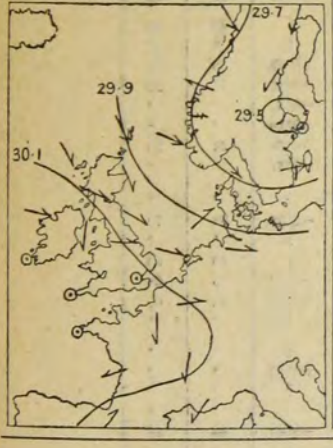
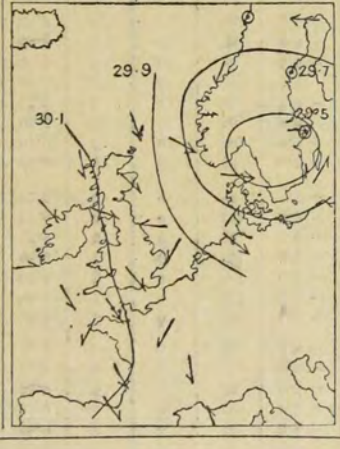
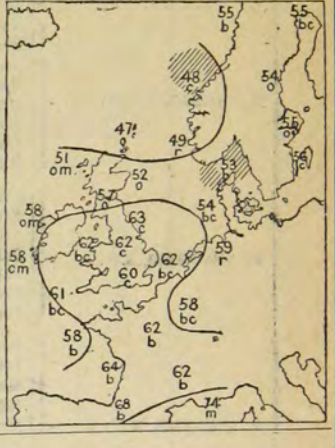
* This value has been altered slightly owing to a correction to the Oxford value for last week.
† Return not received.
‡ The accumulated values in this district are liable to alteration owing to the non-arrival of the Return from Foynes.]

E 18656. 350.—8/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, August 11.** *Weather* rainy in the north-west of England, showery at Stornoway and Mullaghmore, and dull in Norway, but fair elsewhere. Improvement taking place in north-west later. *Temperature* fallen a little; readings ranging from 62° at Yarmouth to 50° in the Hebrides. Highest maxima 71° in London and at Cambridge and 70° at Yarmouth. *Wind* strong from West or North-West on our western coasts and from South-West in east, but Southerly on the eastern shores of the North Sea. Subsequently backing to South-West in Ireland and the west of England. *Sea* rough on the more exposed parts of our western coasts and rather rough in the Channel. *Barometer* rising at all but the Scandinavian and Danish stations. Pressure highest in south of France, with rather deep depression passing away from our northern coasts. Slight fall taking place in west of Ireland later.	
		**Wednesday, August 12.** *Weather* rainy on our extreme north-west coasts and thundery in the west of Ireland, but fair in most other localities. Rain falling generally later—heavily in Scotland and the north of Ireland—and thunderstorms occurring over the north of England. *Temperature* fallen in most places; readings ranging from 62° at Scilly to 49° at Malin Head and 48° in the Shetlands. Maxima below 60° at many of our western and northern stations. *Wind* light Northerly in the north of Scotland and fresh South-Easterly at Malin Head, but generally Westerly or South-Westerly elsewhere, and strong in force on our western and southern coasts. Fresh westerly gale experienced in Channel later and moderate North-Westerly gale in Ireland. *Sea* rough in the west and south. *Barometer* falling in most parts of our Islands. New depression shown off north-west of Ireland in morning. Disturbance subsequently travelling east-north-eastwards, and brisk recovery of pressure taking place in west.	
		**Thursday, August 13.** *Weather* fine generally, but showers falling at one or two of our northern and north-western stations, *Temperature* fallen generally; readings ranging from 60° at Dungeness to 45° in the Shetlands. Night cold, especially over the inland parts of the Kingdom. *Wind* Southerly or South-Easterly on the eastern shores of the North Sea, but North-Westerly elsewhere, strong in force generally, with fresh gale on the east coast of Scotland. Wind subsiding later. *Sea* high at Malin Head, and rough on several parts of our western coasts, as well as at Sumburgh Head. *Barometer* falling in Norway and Denmark, but rising quickly in our Islands. Depression of previous day now lying between the Scotch and Norwegian coasts. Rise continuing over our Islands all day, and disturbance moving away in a north north-easterly direction.	
		**Friday, August 14.** *Weather* rainy in the west of Norway, but generally fine elsewhere. Showers falling later at one or two of our northern stations. *Temperature* fallen on all but the western and northern coasts; readings ranging from 60° at Roche's Point and Jersey to 48° at Nairn. Highest maxima 73° at Hurst Castle, and 70° at Dungeness. *Wind* strong to gale from West in south of Norway, and moderate from West or North-West on our north and east coasts, but light North-Easterly in the south, and South-Easterly in the south-west. *Sea* rather rough at Sumburgh Head and Spurn Head; moderate to smooth elsewhere. *Barometer* rising at all but the Swedish stations. Depression of previous two days passing away to the northward, but subsidiary disturbance shown over the south of Scandinavia. Anticyclone lying over England and the east of Ireland. Slight fall taking place in west and south later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, August 15.** *Weather* fine except in the extreme north, but hazy in some places. Showers of rain in extreme north of Scotland. *Temperature* risen a little, especially in extreme south-east. Maxima 75° at Cambridge and 74° in London. *Wind* light to moderate—Easterly in the south, South-Easterly and Southerly in the west and Westerly in the north. *Sea* rather rough at Spurn Head, moderate to smooth elsewhere. *Barometer* rising; anticyclone lying over the United Kingdom and France, its centre being over our south-eastern counties.	
		**Sunday, August 16.** *Weather* still fine except in extreme northern parts of Ireland and Scotland, where slight showers falling. *Temperature* higher than of late—maxima of 75° to 78° being recorded over England during the afternoon. *Wind* becoming Westerly in the north, and freshening; very light and variable elsewhere. *Sea* rather rough in far north. *Barometer* falling generally—most in north. Well formed depression advancing towards the west of Norway from the westward.	
		**Monday, August 17.** *Weather* becoming cooler and less settled in the northern districts, still fine elsewhere; very warm in the south. *Temperature* unsteady; giving way in north and north-east, but rising to 80° in London, and 76° at Oxford and Cambridge during the day. *Wind* drawing into north-west, except at our most western stations, and freshening on our northern coasts; Westerly gales at times to the eastward of the North Sea. *Sea* moderate to smooth. *Barometer* falling; depression over Scandinavia beginning to move southwards, while anticyclone over our Islands moved to our western coasts.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛⟶ = a heavy gale; ⟹⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 129 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	59	41	53·9	45·4	49·4	− 4·5	52	0	7	1·05	+0·29	*	*
	Stornoway	63	40	57·3	45·3	50·9	− 3·9	62	0	7	0·40	−0·40	40	37
	Wick	60	32	56·6	44·6	50·2	− 4·8	57	0	6	0·43	−0·13	*	*
1. SCOTLAND, E.	Nairn	68	40	61·0	45·3	52·7	− 3·9	75	0	4	0·99	+0·41	*	*
	Aberdeen	70	38	61·9	44·3	52·6	− 3·9	74	0	6	1·06	+0·31	42	40
	Leith	70	42	64·3	48·7	56·0	− 2·0	98	0	1	0·58	−0·02	*	*
2. ENGLAND, N.E.	Alnwick Castle	70	40	61·6	47·3	54·0	− 2·6	84	0	1	0·33	?	*	*
	Shields	70	40	62·7	48·4	55·1	− 2·4	92	0	1	0·16	−0·47	*	*
	Scarborough ℜ	72	43	64·3	49·5	56·5	− 2·2	102	0	2	0·25	−0·35	*	*
	York	75	39	66·9	46·1	55·9	− 3·8	97	0	1	0·24	−0·34	?	?
	Spurn Head	74	47	64·7	50·6	57·3	− 2·2	106	0	1	0·09	?	*	*
3. ENGLAND, E.	Hillington ℜ	75	37	69·0	44·9	56·5	− 3·7	102	0	1	0·48	−0·12	57	55
	Yarmouth	73	42	66·6	50·3	58·0	− 2·7	112	0	1	0·11	−0·40	*	*
	Geldeston	76	38	69·2	46·4	57·1	− 3·8	106	0	1	0·10	−0·35	67	66
	Cambridge	78	41	71·9	47·3	58·9	− 3·0	118	0	1	0·08	−0·43		
	Rothamsted	77	39	69·6	46·3	57·3	− 4·1	107	0	1	0·15	−0·45	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	76	36	68·6	45·0	56·1	− 4·3	99	0	1	0·28	−0·31	*	*
	Loughborough	75	38	68·4	47·9	57·5	− 3·7	109	0	1	0·39	−0·24	*	*
	Leicester	75	41	68·9	48·0	57·8	− 3·4	111	0	2	0·32	−0·33	54	52
	Cheadle ℜ	71	40	63·1	46·3	54·2	− 5·5	85	0	2	0·44	?	*	*
	Churchstoke ℜ	74	37	65·7	45·1	54·8	− 4·9	90	0	2	0·33	?	56	54
	Hereford ℜ	77	39	70·9	46·1	57·8	− 3·4	111	0	2	0·08	−0·56	*	*
	Cirencester	75	37	67·9	45·9	56·2	− 4·4	99	0	0	—	−0·80	66	65
	Oxford	76	41	69·7	47·7	58·0	− 3·4	112	0	1	0·35	−0·23	68§	67§
5. ENGLAND, S.	London†	80	41	71·9	49·3	59·9	− 2·9	125	0	1	0·08	−0·46	62	61
	Marlborough ℜ	77	35	69·7	45·4	56·8	− 3·0	104	0	2	0·12	−0·58	62	61
	Strathfield Turgiss ℜ	?81	47	?72·7	51·3	?61·4	?+ 0·1	136	0	2	0·24	−0·26	*	*
	Dungeness	70	42	68·0	50·6	58·8	− 2·9	118	0	1	0·02	?	*	*
	Hastings (St. Leonard's)	73	49	66·7	53·6	59·8	− 1·7	125	0	2	0·04	−0·54	73	72
	Southampton	83	44	71·4	50·0	60·1	− 1·6	127	0	2	0·04	−0·61	66	65
	Hurst Castle	75	46	69·6	51·7	60·1	− 1·1	127	0	1	0·14	−0·43	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	63	43	58·0	49·5	53·5	− 3·4	81	0	5	0·73	?	*	*
	Glasgow	65	40	59·9	44·5	51·7	− 5·5	68	0	3	0·79	−0·10	40	38
	Ardrossan	65	42	60·0	48·4	53·8	− 3·7	83	0	3	0·81	−0·14	*	*
	Douglas (Isle of Man)	68	35	61·1	44·3	52·2	− 5·5	71	0	2	0·43	−0·47	55	53
7. ENGLAND, N.W.	Newton Reigny (Penrith)	69	35	61·4	44·1	52·2	− 5·6	71	0	2	0·40	?	44	42
	Barrow-in-Furness	64	46	60·4	50·4	55·1	− 4·9	92	0	2	0·44	?	*	*
	Stonyhurst	67	39	62·0	46·8	53·9	− 5·4	83	0	2	1·41	+0·31	53	51
	Blackpool ℜ	64	36	60·6	48·7	54·3	− 5·9	86	0	2	0·45	−0·09	51	50
	Manchester	69	39	63·2	47·1	54·7	− 5·4	89	0	2	0·70	−0·10	*	*
	Liverpool Obsy (Bidston)	68	45	62·7	51·3	56·7	− 3·8	103	0	2	0·50	−0·10	*	*
	Llandudno ℜ	69	44	63·0	50·7	56·5	− 3·9	102	0	2	0·13	−0·48	51	50
	Holyhead	67	46	62·1	50·3	55·9	− 3·8	97	0	2	0·27	−0·37	*	*
8. ENGLAND, S.W.	Llandovery	77	34	68·6	44·1	55·6	− 4·4	95	0	2	0·72	?	*	*
	Pembroke	65	50	61·4	52·9	56·9	− 2·2	104	0	2	0·12	−0·57	71	70
	Arlington (N. Devon)	71	42	64·3	46·9	55·1	− 4·6	92	0	2	0·38	?	*	*
	Cullompton ℜ	77	42	68·9	46·7	57·1	− 4·2	106	0	1	0·10	?	59	58
	Falmouth	70	47	63·8	50·8	56·9	− 3·9	104	0	2	0·22	−0·67	65	64
	Plymouth	75	46	67·4	49·9	58·1	− 3·6	113	0	1	0·18	−0·52	62	61
	Prawle Point	74	47	66·7	51·6	58·7	− 0·8	117	0	2	0·08	?	*	*
9. IRELAND, N.	Malin Head	65	47	59·1	50·1	54·3	− 2·7	86	0	4	1·21	?	*	*
	Londonderry	73	41	62·9	47·8	54·9	− 3·4	90	0	6	0·93	+0·12	*	*
	Mullaghmore	66	47	60·4	50·7	55·3	− 3·9	93	0	3	1·26	?	*	*
	Belmullet	65	46	60·1	51·1	55·3	− 2·4	93	0	3	0·76	?	*	*
	Markree Castle	69	37	62·0	45·1	53·0	− 5·9	77	0	3	0·38	−0·42	36	35
	Brookeborough	73	38	62·9	43·8	52·8	− 6·4	76	0	2	0·26	?	*	*
	Armagh	72	41	64·8	46·5	55·1	− 4·1	92	0	2	0·46	−0·14	38	37
	Donaghadee	68	40	61·9	47·9	55·5	− 2·4	95	0	3	0·32	−0·38	*	*
	Edgeworthstown	70	33	64·3	44·3	53·7	− 5·4	82	0	2	0·34	?	*	*
10. IRELAND, S.	Dublin	71	41	64·5	47·9	55·7	− 3·8	96	0	2	0·18	−0·47	60	58
	Parsonstown	73	35	65·6	45·7	55·1	− 3·9	92	0	2	0·49	−0·31	58	56
	Kilkenny	73	36	64·3	46·3	54·8	− 4·5	90	0	2	0·29	?	*	*
	Waterford	74	42	65·7	47·0	55·8	− 4·1	97	0	2	0·22	−0·58	*	*
	Roche's Point	70	46	64·9	50·4	57·2	− 2·9	106	0	3	0·25	−0·57	*	*
	Valencia	69	47	63·3	50·9	56·7	− 2·4	103	0	3	0·14	−0·89	45	44
	Killarney	74	44	65·6	48·9	56·8	− 2·7	104	0	2	0·29	?	*	*
	Foynes											?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	68	52	63·6	54·6	58·8	− 2·0	118	0	2	0·27	−0·28	*	*
	Jersey (Noirmont)	75	51	68·7	55·3	61·6	− 0·3	137	0	2	0·04	−0·57	78	78

Stations marked ℜ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ The corresponding values for last week should be 31 and 30 respectively.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 34.] *New Series.* WEEK ENDING MONDAY, 24TH AUGUST, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 136.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	65	43	58·8	47·4	52·8	2 below.	76	1099	0	528
	1. SCOTLAND, EAST	71	36	62·4	46·9	54·2	2 below.	85	1596	0	565
	2. ENGLAND, N.E.	69	44	59·0	50·3	54·4	3 below.	87	1686	0	455
	3. ENGLAND, EAST	72	42	63·1	50·3	56·3	4 below.	100	1991	0	559
	4. MIDLAND COUNTIES	74	39	64·8	48·1	56·0	4 below.	98	1966	0	558
	5. ENGLAND, SOUTH	76	39	66·2	49·5	57·3	4 below.	107	2179	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	72	40	65·5	47·4	55·9	1 below.	97	1546	0	453
	7. ENGLAND, N.W.	70	36	64·1	49·8	56·5	3 below.	102	1689	0	425
	8. ENGLAND, S.W.	76	37	68·4	48·8	58·0	2 below.	112	1926	0	331
	9. IRELAND, NORTH	73	38	65·7	50·4	57·6	0 (average).	109	1702	0	407
	10. IRELAND, SOUTH †	75	42	69·1	49·8	58·9	0 (average).	118	1946*	0	328
	— CHANNEL ISLANDS	72	52	66·5	55·5	60·7	1 below.	131	2108	0	106

	DISTRICTS. (See p. 136.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	less than ½	7 less.	159	19·4	37	908	36	28
	1. SCOTLAND, EAST	2	less than ½	7 less.	116	14·1	41	1054	40	33
	2. ENGLAND, N.E.	3	4	2 less.	112	13·8	14	742	14	23
	3. ENGLAND, EAST	4	6	1 more.	106	13·5	24	1138*	24	36
	4. MIDLAND COUNTIES	2	3	3 less.	111	14·8	32	1075	32	34
	5. ENGLAND, SOUTH	2	1	5 less.	101	14·0	23	1154	24	37
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	0	—	9 less.	128	24·2	45	1025	44	32
	7. ENGLAND, N.W.	1	1	7 less.	119	17·6	42	999	43	32
	8. ENGLAND, S.W.	1	1	7 less.	121	20·2	69	1203	70	39
	9. IRELAND, NORTH	0	—	7 less.	134	19·6	43	957	43	30
	10. IRELAND, SOUTH †	1	less than ½	8 less.	124	23·8	67	1136	68	36
	— CHANNEL ISLANDS	0	—	6 less.	130	15·7	73	1480	74	48

General Remarks.

Weather has been fine and bright over the south-western parts of the Kingdom, but generally cloudy or dull elsewhere. Some heavy showers were experienced over England between the 20th and 22nd, accompanied by thunder and lightning, but in most places the amount of rain was very slight.

Temperature has been about equal to the mean in Ireland, but below it both in England and Scotland, the deficit over eastern, southern, and central England amounting to 4°. The maxima, which were generally registered either on the 23rd or 24th, ranged from 65° in "Scotland, N." and 69° in "England, N.E.", to 75° in "Ireland, S." and 76° in "England, S." and "England, S.W." The minima were recorded at most stations on the 19th, when the thermometer fell to 36° in "England, E." and "England, N.W." and to between 37° and 44° in all other districts excepting the "Channel Islands", where the thermometer did not sink below 52°.

Rainfall has been slightly in excess of the mean in "England, E.", but less elsewhere, the fall in most places being scarcely appreciable.

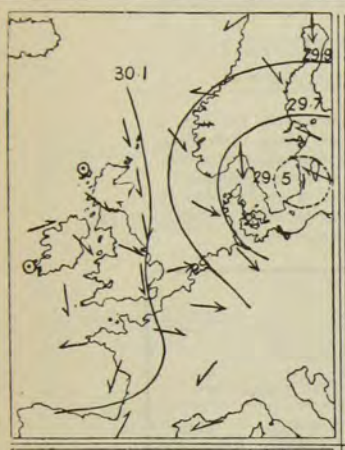
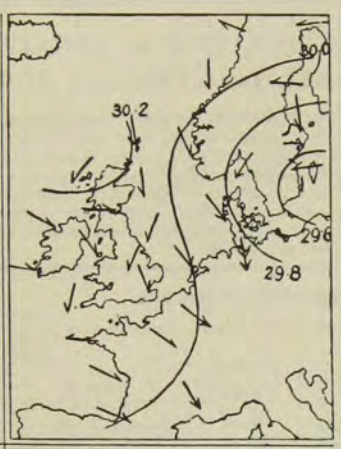
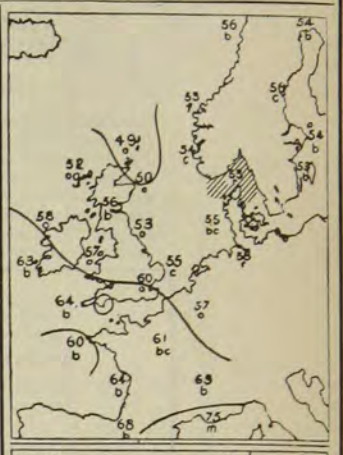
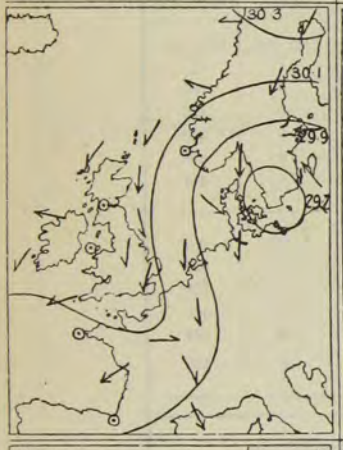
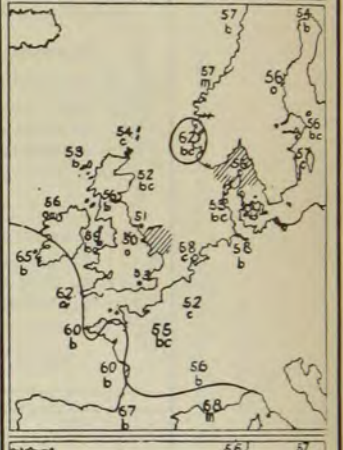
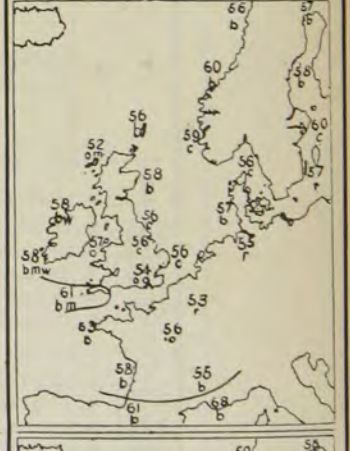
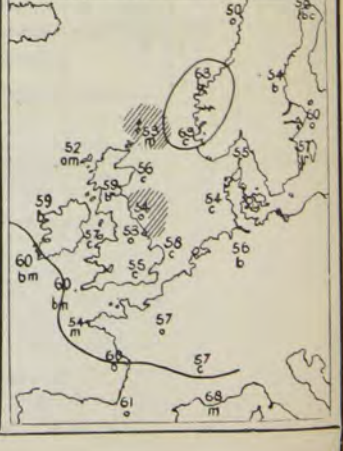
Bright sunshine shows a decided decrease in most of the English and Scotch districts, but not elsewhere; the percentage of the possible duration varied from 14 in "England, N.E." and 24 in "England, E." and "England, S.", to 40 in "Scotland, E.", 68 in "Ireland, S.", 70 in "England, S.W.", and 74 in the "Channel Islands".

Depressions observed.—The only depressions observed in our neighbourhood moved in a south-easterly and southerly direction over Scandinavia, Denmark, and the Netherlands, while over our Islands the conditions were generally anticyclonic. Light or moderate Northerly winds were consequently prevalent during the greater part of the week; on the 20th and 21st, however, they blew freshly on our east coasts, while at the close of the period very light and variable winds were reported.

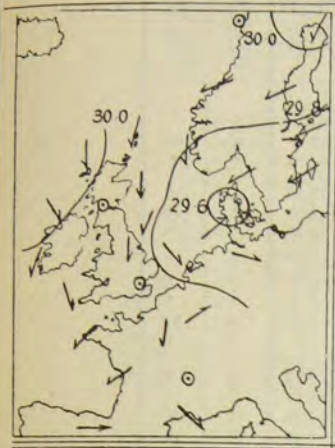
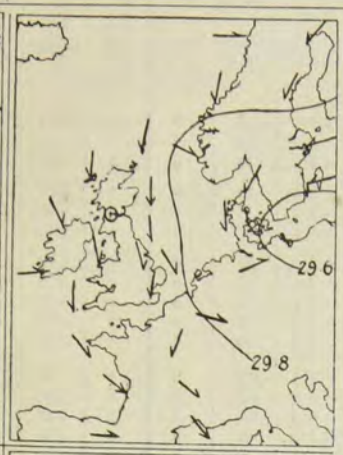
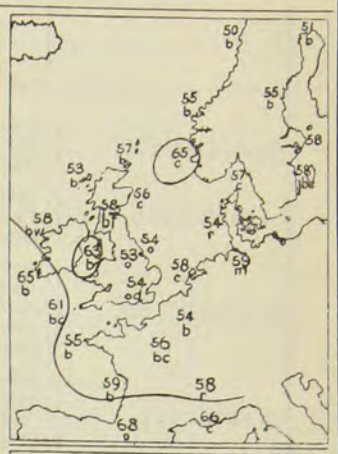
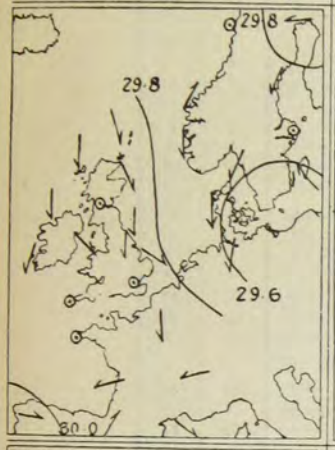
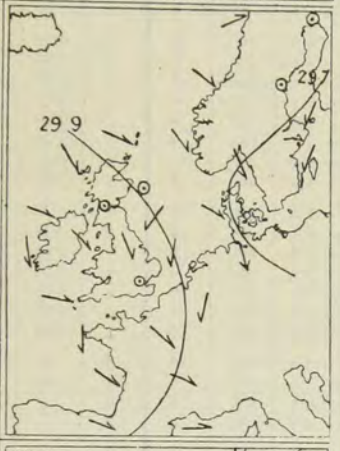
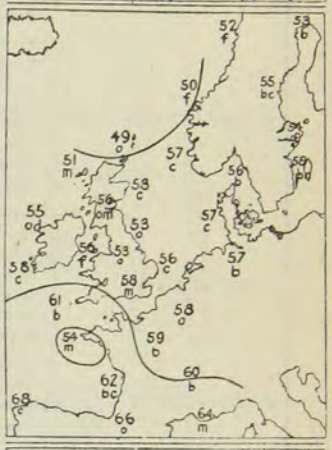
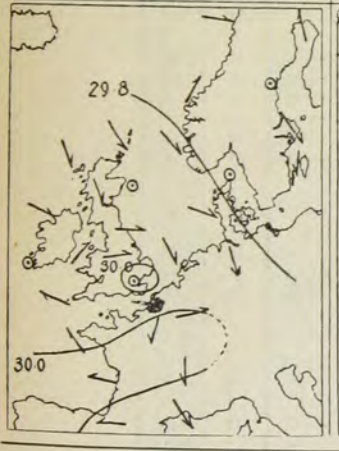
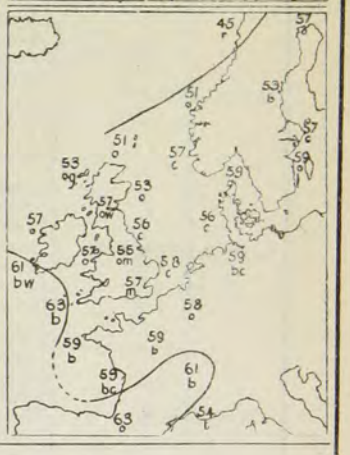
* This value has been altered somewhat owing to the receipt of some arrears of observations.
† The accumulated values in this district are liable to alteration owing to the non-arrival of the Returns from Foynes and Waterford.

E 18732. 350.—8/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, August 18.** *Weather* fair generally, but cloudy in many places; very fine in Ireland. Rain falling on south-eastern shores of the North Sea. *Temperature* low over Great Britain, but rising to 74° during the day both over Ireland and along our south coast. Maxima over the inland parts of England only 63° to 69°. *Wind* Northerly and North-Easterly; fresh in the east, moderate in the south, light in the west. *Sea* moderate in the north-east and east; smooth elsewhere. *Barometer* highest in north and west, lowest in far east. Depression over the extreme south of Sweden moving southwards and spreading eastwards.	
		**Wednesday, August 19.** *Weather* slighty showery at some eastern stations, dry elsewhere, but cloudy over Great Britain. No great change during day. *Temperature* fallen somewhat; very low for time of year except in Ireland, where thermometer again rose to above 70° in afternoon. *Wind* still Northerly in the east, North-Easterly in the south; Easterly and variable in the west. *Sea* rather rough off the east of England. *Barometer* remaining highest in the north and west, lowest in far east; readings very uniform over the British Islands.	
		Thursday, August 20. *Weather* still fine, but foggy in Ireland; unsettled over Great Britain, where thunderstorms occurred during day, with brief but heavy falls of rain and hail. *Temperature* changing little and irregularly; maxima over our Islands all below 70° except at Belmullet. *Wind* Northerly and North-Easterly, moderate; blowing gustily at times over England during the day. *Sea* moderate to smooth. *Barometer* highest in north, lowest in south-east; local oscillations during day, but no great change recorded.	
		Friday, August 21. *Weather* remaining fine in west; cold, changeable, and at times very rainy in many parts of Great Britain; fair in the extreme south-east. *Temperature* still low, rising to between 70° and 72° in the west during day, but not exceeding 63° to 67° over England. *Wind* Northerly, moderate as a rule, but blowing freshly at times in some parts during the day. *Sea* rather rough at Sumburgh Head and Shields. *Barometer* highest in north-west, lowest in far east, gradients slight. Local irregularities observed over England.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, August 22.** *Weather* still rather unsettled and showery over our eastern counties, fine in the west, and improving generally. *Temperature* rising to between 70° and 73° in the west, but not exceeding 64° to 66° in the south-east; very low for time of year. *Wind* Northerly, moderate as a rule, but strong in the east of Scotland. *Sea* very little disturbed. *Barometer* remaining highest in west and lowest in east, gradients slight.	
		**Sunday, August 23.** *Weather* fine generally. but cold and autumnal. No rain reported over the United Kingdom. *Temperature* fallen again. Maxima in our Islands all below 70°, excepting at Prawle Point. *Wind* fallen very light and variable over the United Kingdom generally. *Sea* smooth. *Barometer* very uniform over our Islands, slight gradients for northerly winds over the North Sea. Mercury very steady during day.	
		**Monday, August 24.** *Weather* fine except in east of Scotland; air dry, but softer than of late. Fog or haze in many places morning and evening, and much dew falling. *Temperature* rising; maxima over England varying from 70° to 73°, but those in Ireland less high. *Wind* drawing into South-East and East in the west; very light and variable elsewhere. Calm in many places. *Sea* smooth. *Barometer* uniformly high over Great Britain, the North Sea and Germany; rising at our northern stations, but beginning to fall over the Bay of Biscay later on.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 133 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	64	45	58·1	47·1	52·3	− 1·6	72	0	2	0·03	−0·78	*	*
	Stornoway	61	43	59·0	47·6	53·0	− 1·6	77	0	0	—	−0·88	37	36
	Wick	65	44	59·3	47·4	53·0	− 1·8	77	0	2	0·03	−0·54	*	*
1. SCOTLAND, E.	Nairn	65	36	61·9	44·3	52·6	− 3·4	74	0	3	0·03	−0·66	*	*
	Aberdeen	65	44	60·7	48·4	54·2	− 1·7	85	0	2	0·08	−0·70	41	40
	Leith	71	43	64·7	48·0	55·9	− 1·7	97	0	1	0·01	−0·59	*	*
2. ENGLAND, N.E.	Alnwick Castle	62	48	57·6	49·9	53·5	− 2·6	81	0	1	0·03	?	*	*
	Shields	63	48	58·4	49·7	53·8	− 3·0	83	0	2	0·11	−0·51	*	*
	Scarborough ℍ	64	50	58·2	51·2	54·5	− 3·7	88	0	4	0·57	−0·03	*	*
	York	69	44	62·3	49·0	55·3	− 3·5	93	0	3	0·20	−0·40	14	14
	Spurn Head	64	50	58·7	51·6	54·9	− 3·9	90	0	4	1·11	?	*	*
3. ENGLAND, E.	Hillington ℍ	70	49	63·4	51·1	56·9	− 2·8	104	0	4	0·60	0·00	27	27
	Yarmouth	63	50	62·6	52·1	57·0	− 3·5	105	0	5	0·43	−0·09	*	*
	Geldeston	66	46	63·3	50·8	56·7	− 3·9	103	0	3	1·02	+0·54	26	26
	Cambridge	72	42	64·7	49·7	56·8	− 4·4	104	0	4	0·51	−0·01	19	19
	Rothamsted	69	43	61·6	47·8	54·3	− 7·4	86	0	3	0·47	−0·13	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	70	43	64·0	49·6	56·4	− 3·2	101	0	2	0·38	−0·19	*	*
	Loughborough	73	42	64·1	48·9	56·0	− 4·4	98	0	3	0·83	+0·23	*	*
	Leicester	72	45	64·7	49·7	56·8	− 3·6	104	0	3	0·65	0·00	16	16
	Cheadle ℍ	69	41	62·7	46·7	54·2	− 5·2	85	0	2	0·15	?	*	*
	Churchstoke ℍ	70	43	66·3	46·9	56·0	− 3·2	98	0	1	0·02	?	41	41
	Hereford ℍ	74	42	68·3	46·4	56·7	− 3·8	103	0	1	0·07	−0·54	*	*
	Cirencester	71	39	64·6	46·6	55·1	− 5·3	92	0	2	0·21	−0·58	38	38
	Oxford	71	44	64·0	49·6	56·4	− 4·9	101	0	2	0·31	−0·25	32	32
5. ENGLAND, S.	London†	71	42	64·4	49·0	56·2	− 5·5	99	0	2	0·18	−0·37	11	11
	Marlborough ℍ	72	39	65·9	45·9	55·3	− 6·1	93	0	2	0·13	−0·62	35	36
	Strathfield Turgiss ℍ	?72	44	?66·2	50·8	58·0	− 3·0	112	0	3	0·14	−0·37	*	*
	Dungeness	66	44	64·3	49·4	56·4	− 4·8	101	0	3	0·08	?	*	*
	Hastings (St. Leonard's)	68	48	64·9	52·0	58·1	− 3·1	113	0	1	0·05	−0·55	16	16
	Southampton	76	45	68·5	49·4	58·4	− 3·2	115	0	1	0·02	−0·64	31	32
	Hurst Castle	76	45	69·4	49·7	59·0	− 2·2	119	0	1	0·02	−0·58	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	69	43	64·6	48·9	56·3	− 0·4	100	0	0	—	?	*	*
	Glasgow	71	42	66·2	45·5	55·2	− 1·4	92	0	1	0·01	−0·90	35	34
	Ardrossan	72	45	66·7	47·6	56·6	− 0·3	104	0	0	—	−0·95	*	*
	Douglas (Isle of Man)	69	40	64·5	47·6	55·5	− 2·0	95	0	0	—	−0·90	54	54
7. ENGLAND, N.W.	Newton Reigny (Penrith)	66	36	62·5	45·1	53·3	− 3·9	79	0	0	—	?	31	31
	Barrow-in-Furness	67	47	64·6	51·7	57·8	− 1·9	111	0	0	—	?	*	*
	Stonyhurst	69	42	65·2	48·5	56·4	− 2·6	101	0	1	0·11	−0·99	37	37
	Blackpool ℍ	66	39	64·4	46·7	55·0	− 5·0	91	0	1	0·02	−0·54	46	46
	Manchester	70	41	65·3	48·1	56·2	− 3·5	99	0	2	0·14	−0·67	*	*
	Liverpool Obsy (Bidston)	66	47	64·9	51·4	57·8	− 2·2	111	0	1	0·09	−0·54	*	*
	Llandudno ℍ	65	49	63·3	52·0	57·3	− 2·7	107	0	0	—	−0·70	55	56
	Holyhead	66	52	62·7	54·6	58·4	− 1·2	115	0	0	—	−0·64	*	*
8. ENGLAND, S.W.	Llandovery	76	37	71·3	41·3	55·4	− 4·1	97	2	1	0·10	?	*	*
	Pembroke	68	51	65·4	53·1	58·9	+ 0·4	118	0	0	—	−0·73	78	79
	Arlington (N. Devon)	70	44	67·1	47·0	56·5	− 2·5	102	0	0	—	?	*	*
	Cullompton ℍ	76	40	70·0	44·7	56·6	− 4·0	102	0	3	0·32	?	45	46
	Falmouth	72	50	67·0	52·1	59·1	− 1·6	120	0	0	—	−0·91	81	83
	Plymouth	75	46	70·2	50·9	60·0	− 1·5	126	0	0	—	−0·73	70	71
	Prawle Point	74	48	67·7	52·4	59·6	+ 0·4	123	0	1	0·05	?	*	*
9. IRELAND, N.	Malin Head	63	48	59·7	52·3	55·8	− 0·9	97	0	0	—	?	*	*
	Londonderry	71	44	67·0	50·7	58·4	+ 0·8	115	0	0	—	−0·83	*	*
	Mullaghmore	67	54	64·0	55·1	59·3	+ 0·6	121	0	0	—	?	*	*
	Belmullet	70	50	64·6	53·1	58·5	+ 1·0	116	0	0	—	?	*	*
	Markree Castle	69	38	64·5	47·4	55·4	− 2·8	94	0	1	0·01	−0·79	47	47
	Brookeborough	72	39	68·2	47·6	57·3	− 1·2	107	0	0	—	?	*	*
	Armagh	73	41	71·9	48·5	59·5	+ 1·0	123	0	0	—	−0·60	38	38
	Donaghadee	65	46	63·1	50·0	56·2	− 1·3	99	0	0	—	−0·70	*	*
	Edgeworthstown	72	44	67·9	49·0	57·9	− 0·6	111	0	0	—	?	*	*
10. IRELAND, S.	Dublin	70	47	65·5	51·1	57·9	− 1·0	111	0	1	0·05	−0·60	54	55
	Parsonstown	74	42	69·1	47·1	57·7	− 1·1	110	0	0	—	−0·80	67	68
	Kilkenny	73	44	69·3	50·4	59·3	+ 0·8	121	0	1	0·02	?	*	*
	Waterford												*	*
	Roche's Point	70	49	68·6	51·9	59·8	0·0	125	0	1	0·02	−0·83	*	*
	Valencia	73	48	70·1	50·7	59·8	+ 0·9	125	0	0	—	−1·08	80	81
	Killarney	75	44	71·8	47·6	59·0	− 0·4	119	0	0	—	?	*	*
	Foynes												*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	69	54	66·1	55·7	60·6	− 0·1	130	0	0	—	−0·62	*	*
	Jersey (Noirmont)	72	52	66·9	55·3	60·8	− 1·0	132	0	0	—	−0·53	73	74

Stations marked ℍ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 35.] *New Series.* WEEK ENDING MONDAY, 31ST AUGUST, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 140.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42°. For the Week.	Above 42°. Since Dec. 30/84.	Below 42°. For the Week.	Below 42°. Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	60	32	54·7	40·5	47·2	7 below.	43	1142	4	532
	1. SCOTLAND, EAST	59	33	56·4	43·5	49·5	6 below.	53	1649	0	565
	2. ENGLAND, N.E.	71	33	58·1	48·4	53·0	4 below.	77	1763	0	455
	3. ENGLAND, EAST	75	41	62·2	47·9	54·6	5 below.	88	2079	0	559
	4. MIDLAND COUNTIES	76	38	61·4	47·4	54·0	5 below.	84	2050	0	558
	5. ENGLAND, SOUTH	74	41	65·8	52·0	58·5	2 below.	116	2295	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	66	40	58·2	45·6	51·5	5 below.	67	1613	0	453
	7. ENGLAND, N.W.	72	31	58·7	47·4	52·7	6 below.	75	1764	0	425
	8. ENGLAND, S.W.	78	32	64·8	50·9	57·4	2 below.	108	2034	0	331
	9. IRELAND, NORTH	72	40	58·9	48·9	53·6	4 below.	81	1783	0	407
	10. IRELAND, SOUTH	74	45	62·6	51·8	56·9	2 below.	104	2050	0	328
	— CHANNEL ISLANDS	75	51	65·0	56·7	60·7	1 below.	131	2239	0	106

	DISTRICTS. (See p. 140.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	less than ½	7 less.	160	19·4	57	965	58	29
	1. SCOTLAND, EAST	1	less than ½	7 less.	117	14·1	41	1095	42	33
	2. ENGLAND, N.E.	1	less than ½	6 less.	113	13·8	8	750	8	23
	3. ENGLAND, EAST	1	2	4 less.	107	13·7	26	1164	27	36
	4. MIDLAND COUNTIES	3	5	2 less.	114	15·3	21	1096	22	34
	5. ENGLAND, SOUTH	3	3	4 less.	104	14·3	34	1188	35	37
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	1	1	8 less.	129	24·3	12	1037	12	32
	7. ENGLAND, N.W.	1	1	7 less.	120	17·7	15	1014	16	31
	8. ENGLAND, S.W.	4	7	2 less.	125	20·9	29	1232	31	38
	9. IRELAND, NORTH	2	3	4 less.	136	19·9	7	964	7	30
	10. IRELAND, SOUTH	4	13	4 more.	128	25·2*	17	1153	18	36
	— CHANNEL ISLANDS	5	7	1 more.	135	16·4	27	1507	28	47

General Remarks.

Weather has been fine and bright in the north and east of Scotland, but very cloudy or dull in nearly all other parts of the Kingdom. Very little rain has fallen, however, except in the extreme south-west and south.

Temperature has been below the mean in all districts, the deficit ranging from 1° in "Ireland, S." and the "Channel Islands", and 2° in "England, S." and "England, S.W.", to 5° over central and eastern England, and to 6° or 7° in Scotland. The maxima, which were recorded in most places on the 25th, varied from 59° in "Scotland, E." and 60° in "Scotland, N.", to 76° in the "Midland Counties" and 78° in "England, S.W." Towards the end of the period the maxima were very low for the season, the thermometer at many stations not rising to 60°. The minima, which were registered on different days in the various districts, were as low as 31° in "England, N.W." and 32° in "Scotland, N." and "England, S.W."; in most other districts they varied from 33° to 41°, but 45° was the lowest reading recorded in the south of Ireland and 51° in the "Channel Islands".

Rainfall has been rather more than the mean in "Ireland, S." and the "Channel Islands", but less elsewhere.

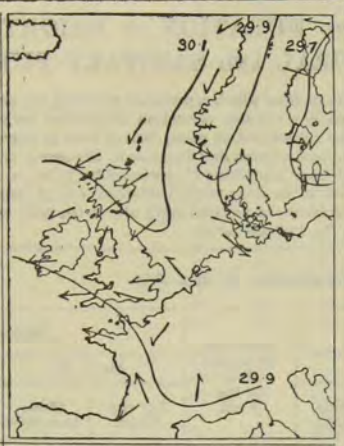
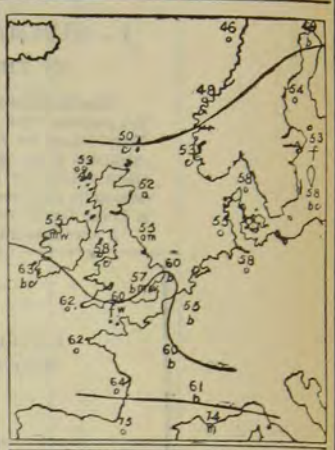
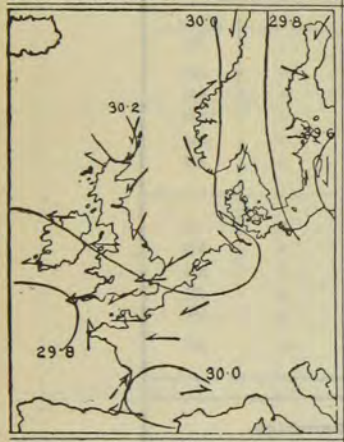
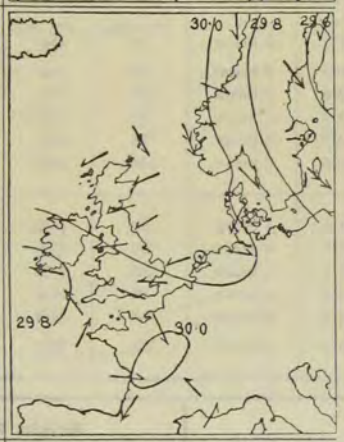
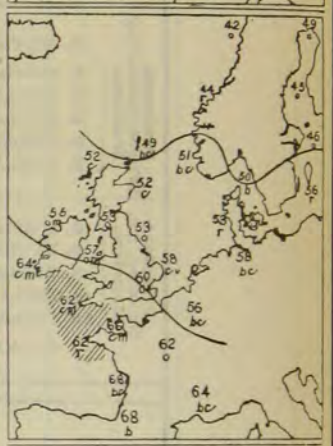
Bright sunshine has been more prevalent in the south and east of England and in the north and east of Scotland than it was last week, but less so in all other districts. The percentage of the possible amount of duration varied from 7 in "Ireland, N." and 8 in "England, N.E.", to 35 in "England, S.", 42 in "Scotland, E.", and 58 in "Scotland, N."

Depressions observed.—The distribution of barometric pressure has been rather more complex than of late, the barometer being comparatively high over the United Kingdom, while depressions have been observed over the southern parts of Scandinavia and also to the south-westward and southward of our Islands. The depression which most influenced the winds in our neighbourhood travelled in an easterly and south-easterly direction over France on the 29th, causing violent gales and heavy rains in all parts of that country, and strong North-Easterly winds or moderate gales in the south and south-east of England. At the close of the period a small shallow depression was moving over our south-western coasts from the westward.

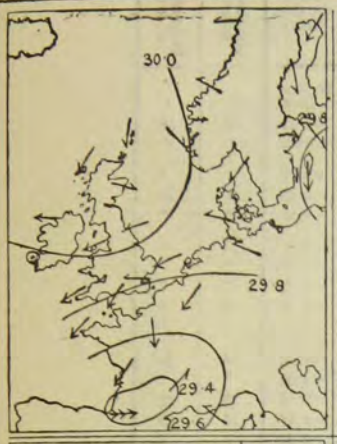
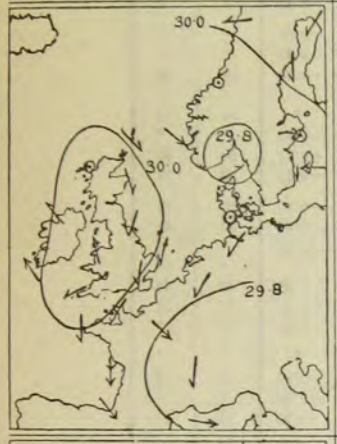
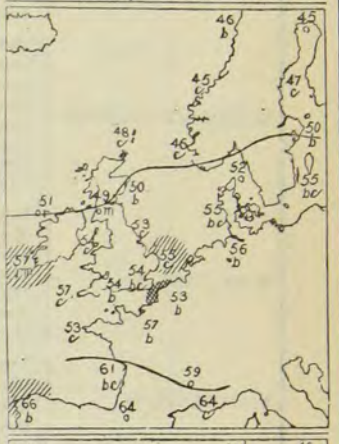
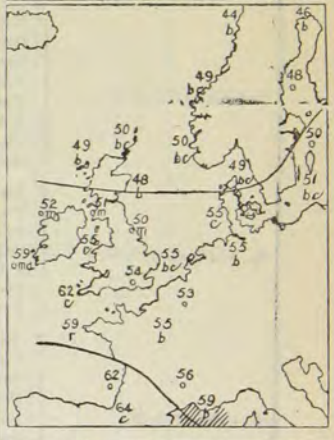
* This value has been altered slightly owing to the receipt of some arrears of observations.

E 18801. 350.—9/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, August 25.** *Weather* fine generally, but rather cloudy at times in several places. *Temperature* rather low everywhere; 8 a.m. readings varying from between 60° and 63° on our south and south-west coasts to between 51° and 53° in Scotland. Maxima 72° to 76° over Ireland and England. *Wind* Easterly in Ireland and the English Channel; calms and variable airs prevalent over England and the east of Scotland. *Sea* moderate to smooth. *Barometer* highest in north, with a ridge extending south-eastwards over North Sea. Depression over Baltic and south of Sweden, and another advancing over Bay of Biscay from the southward.	
		**Wednesday, August 26.** *Weather* becoming dull, unsettled, and showery in the south-west and south, with thunder and lightning in several places. Still fine and dry in the north. *Temperature* inclined to rise at first at the southern and south-western stations, where maxima again exceeded 70°; not nearly so warm in the north of England as on 25th. *Wind* North-Easterly and Easterly; strong in the west, moderate in the east, and light in the north-east. *Sea* rough on our south-western coasts. *Barometer* still highest in north and east; depression in south-west now found off south of Ireland, and moving slowly to the north-westward. New fall of barometer over the south of the Bay later on.	
		Thursday, August 27. *Weather* very showery in south-west and south, fair in north. Thunderstorms over south of France; aurora in Scotland. *Temperature* changing irregularly, but lower generally than on 27th; very low for time of year. *Wind* veering to South for a time on southern coasts, but remaining Easterly or North-Easterly elsewhere, and blowing strongly at the western stations. Backing to East again over the south of England later on. *Sea* still rough on the western coasts. *Barometer* continuing highest over Scotland and the North Sea, low both over the Baltic and off our south-west coasts. Fresh fall taking place over southern parts of Bay of Biscay later.	
		Friday, August 28. *Weather* still fine and dry in the north and east, showery in the south-west, and slightly so over our southern counties also. Heavy rain in France later on, with thunder and lightning. *Temperature* low everywhere, especially in north; daily maxima all below 70°, and night very cold inland over our northern counties. *Wind* Easterly and North-Easterly; strong in west, south, and south-east, light in north-east; becoming still stronger in the south-east later on. *Sea* rough except in the north and north-east. *Barometer* highest over Scotland, lowest over Bay of Biscay; gradients moderate. Depression advancing towards south-west of France later, and growing deep.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, August 29.** *Weather* rough and cold, but dry, at all but our northern stations, where it remained fair and quiet. Very wild and rough over France, with much thunder, lightning, and rain. *Temperature* remaining low especially over our more northern counties. *Wind* more moderate in west, but blowing a very strong and squally breeze from North-East in the south and south-east, and a severe North-East to North-West gale in France. Calms prevalent in Scotland. *Sea* rough in south-west, south, and east. *Barometer* still highest in the north. Deep depression moving eastwards over France.	
		**Sunday, August 30.** *Weather* fine over Great Britain as a whole, but becoming wet in Ireland and later on in some parts of Devon and Cornwall also. *Temperature* fallen again over England; very low generally for time of year. *Wind* lulling in south of England and remaining light in Scotland. Veering to South-Eastward in Ireland, and freshening at Valencia. *Sea* going down except in far west; rather rough at Valencia. *Barometer* rising France and England, falling in Ireland—most at Valencia. Shallow depression approaching south-west of Ireland from the westward.	
		Monday, August 31. *Weather* showery and unsettled in west and south, but afterwards improving a little. Still fine in north and north-east. *Temperature* low everywhere; night very sharp over northern and north-midland counties. *Wind* light to moderate—very variable in north, east, and south-east, but complete cyclonic circulation of moderate winds prevailing in south-west. Wind afterwards backing to East over our southern counties. *Sea* moderate to smooth. *Barometer* unsteady. Highest over France and Great Britain, lowest over south of Sweden and off our south-west coasts. Shallow depression in south-west moving eastwards and south-eastwards. Barometer again beginning to fall in far west at night.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛⟶ = a heavy gale; ⇛⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 137 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	56	38	52·1	40·6	46·0	− 7·5	34	4	2	0·07	−0·73	*	*
	Stornoway	60	39	55·9	42·9	49·0	− 4·7	49	0	1	0·03	−0·87	57	58
	Wick	59	32	56·0	38·0	46·5	− 7·7	48	11	0	—	−0·60	*	*
1. SCOTLAND, E.	Nairn	59	33	56·3	42·1	48·8	− 6·4	48	0	1	0·02	−0·67	*	*
	Aberdeen	59	33	56·7	43·0	49·4	− 5·8	52	0	1	0·01	−0·78	41	42
	Leith	59	41	56·1	45·4	50·4	− 6·2	59	0	0	—	−0·60	*	*
2. ENGLAND, N.E.	Alnwick Castle	56	33	54·1	43·7	48·6	− 6·9	46	0	1	0·02	?	*	*
	Shields	58	40	56·0	49·0	52·3	− 3·9	72	0	0	—	−0·60	*	*
	Scarborough ℳ	62	48	58·6	50·3	54·2	− 3·1	85	0	0	—	−0·63	*	*
	York	71	39	62·3	47·1	54·2	− 3·6	85	0	2	0·04	−0·58	8	8
	Spurn Head	70	48	59·6	52·0	55·6	− 2·4	95	0	0	—	?	*	*
3. ENGLAND, E.	Hillington ℳ	75	42	62·9	46·6	54·3	− 1·4	86	0	1	0·15	−0·46	23	24
	Yarmouth	64	48	62·0	52·4	56·9	− 3·0	104	0	0	—	−0·60	*	*
	Geldeston	70	42	60·4	47·8	53·7	− 6·0	82	0	1	0·07	−0·46	26	27
	Cambridge	73	41	63·4	45·7	54·0	− 6·4	84	0	2	0·36	−0·17	28	29
	Rothamsted	70	43	62·3	46·8	54·1	− 5·8	85	0	2	0·29	−0·34	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	76	38	63·7	47·9	55·3	− 3·5	93	0	0	—	−0·60	*	*
	Loughborough	76	44	61·0	48·3	54·4	− 5·0	87	0	4	0·27	−0·39	*	*
	Leicester	76	45	60·8	48·3	54·2	− 5·2	85	0	4	0·52	−0·14	10	10
	Cheadle ℳ	70	41	57·1	46·1	51·3	− 7·1	65	0	3	0·27	?	*	*
	Churchstoke ℳ	72	41	60·6	46·7	53·2	− 5·2	78	0	3	0·43	?	14	15
	Hereford ℳ	75	44	62·5	46·7	54·1	− 5·5	85	0	3	0·70	+0·02	*	*
	Cirencester	71	45	62·6	47·0	54·3	− 5·6	86	0	3	1·02	+0·22	29	30
	Oxford	71	44	62·7	48·3	55·1	− 5·3	92	0	3	0·45	−0·15	32	33
5. ENGLAND, S.	London†	74	46	65·4	50·3	57·4	− 4·0	108	0	3	0·48	−0·10	25	26
	Marlborough ℳ	72	41	63·2	47·2	54·7	− 4·1	89	0	4	0·44	−0·36	32	34
	Strathfield Turgiss ℳ	71	49	64·3	52·2	57·9	− 2·5	111	0	0	—	−0·55	*	*
	Dungeness	68	48	64·3	54·7	59·2	− 1·4	120	0	2	0·06	?	*	*
	Hastings (St. Leonard's)	72	50	67·2	54·1	60·3	− 0·3	128	0	3	0·38	−0·25	42	44
	Southampton	74	46	68·2	51·5	59·4	− 1·1	122	0	4	0·28	−0·42	35	37
	Hurst Castle	72	47	67·7	53·9	60·4	− 0·1	129	0	4	0·22	−0·43	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	62	41	59·2	45·2	51·8	− 4·4	69	0	0	—	?	*	*
	Glasgow	60	42	56·5	44·6	50·2	− 5·5	57	0	0	—	−0·95	13	13
	Ardrossan	63	40	59·1	43·7	50·9	− 5·3	62	0	0	—	−0·95	*	*
	Douglas (Isle of Man)	66	44	58·0	48·7	53·1	− 3·7	78	0	1	0·26	−0·54	10	10
7. ENGLAND, N.W.	Newton Reigny (Penrith)	65	31	57·1	42·0	49·1	− 7·4	50	0	0	0·01§	?	14	14
	Barrow-in-Furness	65	43	58·7	48·0	53·4	− 5·3	80	0	1	0·15	?	*	*
	Stonyhurst	70	40	59·0	45·7	52·0	− 6·2	70	0	1	0·30	−0·85	14	14
	Blackpool ℳ	64	38	58·8	46·0	52·0	− 7·4	70	0	1	0·31	−0·34	18	19
	Manchester	72	42	59·1	47·2	52·8	− 6·2	76	0	1	0·04	−0·80	*	*
	Liverpool Obsy (Bidston)	66	44	58·9	49·1	53·7	− 5·6	82	0	1	0·12	−0·58	*	*
	Llandudno ℳ	63	45	58·8	49·8	54·0	− 5·4	84	0	0	—	−0·70	15	16
	Holyhead	64	47	59·0	51·1	54·7	− 4·0	89	0	2	0·05	−0·66	*	*
8. ENGLAND, S.W.	Llandovery	78	32	64·7	45·6	54·6	− 4·0	88	2	4	0·65	?	*	*
	Pembroke	69	48	63·0	52·4	57·4	− 0·1	108	0	4	0·40	−0·37	40	42
	Arlington (N. Devon)	71	40	64·3	49·1	56·2	− 2·0	99	0	4	0·22	?	*	*
	Cullompton ℳ	74	43	67·0	48·8	57·4	− 2·4	108	0	4	0·70	?	30	32
	Falmouth	65	48	63·2	54·0	58·3	− 1·7	114	0	4	1·03	+0·02	21	23
	Plymouth	72	48	66·5	53·1	59·4	− 1·7	122	0	4	1·24	+0·43	26	27
	Prawle Point	68	45	64·9	53·0	58·6	+ 0·5	116	0	4	0·55	?	*	*
9. IRELAND, N.	Malin Head	59	46	56·7	50·3	53·3	− 2·8	79	0	0	—	?	*	*
	Londonderry	67	43	62·2	48·1	54·7	− 2·2	89	0	0	—	−0·85	*	*
	Mullaghmore	64	49	57·7	50·9	54·1	− 3·7	85	0	2	0·41	?	*	*
	Belmullet	69	48	60·1	50·9	55·2	− 1·5	91	0	4	0·10	?	*	*
	Markree Castle	69	40	57·8	45·5	51·3	− 6·2	65	0	4	0·60	−0·20	8	8
	Brookeborough	68	45	57·7	47·4	52·2	− 5·4	71	0	2	0·51	?	*	*
	Armagh	72	42	59·9	47·6	53·4	− 4·1	80	0	2	0·23	−0·40	5	5
	Donaghadee	65	48	58·7	50·9	54·6	− 2·1	88	0	1	0·01	−0·69	*	*
	Edgeworthstown	69	46	58·9	48·4	53·3	− 4·7	79	0	3	0·91	?	*	*
10. IRELAND, S.	Dublin	65	48	59·8	51·3	55·3	− 2·8	93	0	4	0·58	−0·05	17	18
	Parsonstown	72	46	61·1	50·3	55·4	− 3·0	94	0	4	1·03	+0·23	16	17
	Kilkenny	70	47	60·4	49·9	54·8	− 3·2	90	0	4	0·46	?	*	*
	Waterford	68	45	62·0	51·0	56·2	− 2·3	99	0	4	1·97	+1·07	*	*
	Roche's Point	68	50	64·3	52·9	58·3	− 0·9	114	0	5	1·51	+0·60	*	*
	Valencia	74	51	66·7	56·3	61·2	+ 2·6	134	0	5	2·05	+0·95	19	20
	Killarney	71	50	65·1	54·0	59·2	+ 0·5	120	0	5	0·30	?	*	*
	Foynes	71	46	61·6	48·9	54·9	− 3·0	90	0	4	2·51	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	53	63·3	56·7	59·9	− 0·7	125	0	5	0·60	−0·11	*	*
	Jersey (Noirmont)	75	51	66·6	56·7	61·4	− 0·2	135	0	4	0·86	+0·26	27	28

Stations marked ℳ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Fog.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 36.] *New Series.* WEEK ENDING MONDAY, 7TH SEPTEMBER, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 144.)	Temperature of the Air.								
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.		
				Averages of				Above 42°		Below 42°
		Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.		For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	63	29	58·1	46·6	52·1	1 below.	71	1213	0	532
	1. SCOTLAND, EAST	68	31	62·0	45·3	53·3	2 below.	79	1728	0	565
	2. ENGLAND, N.E.	70	36	61·7	47·9	54·7	1 below.	89	1852	0	455
	3. ENGLAND, EAST	73	38	66·1	49·3	57·3	2 below.	107	2186	0	559
	4. MIDLAND COUNTIES	76	37	65·9	48·3	56·7	1 below.	103	2153	0	558
	5. ENGLAND, SOUTH	74	44	66·7	53·5	59·8	0 (average).	125	2420	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	65	36	60·6	49·5	54·7	1 below.	89	1702	0	453
	7. ENGLAND, N.W.	68	32	62·4	50·1	56·0	2 below.	96	1860	0	425
	8. ENGLAND, S.W.	69	44	64·1	53·1	58·4	1 below.	115	2149	0	331
	9. IRELAND, NORTH	68	37	61·8	49·9	55·6	1 below.	95	1878	0	407
	10. IRELAND, SOUTH	70	44	63·9	51·5	57·4	0 (average).	108	2158	0	328
	— CHANNEL ISLANDS	67	54	64·3	56·0	59·9	1 below.	125	2334	0	106

	DISTRICTS. (See p. 144.)	Rainfall.					Bright Sunshine.			
		For the Week.			Since Dec. 30/84.		Hours recorded.		Percentage of the possible Duration.	
		Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Number of Rainy Days.	Total Fall.	For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	6	2 less.	164	20·0	24	989	25	29
	1. SCOTLAND, EAST	4	4	3 less.	121	14·5	39	1134	41	33
	2. ENGLAND, N.E.	4	6	0 (average).	117	14·4	25	775	27	23
	3. ENGLAND, EAST	5	10	4 more.	112	14·7	37*	1201*	40*	37*
	4. MIDLAND COUNTIES	6	11	4 more.	120	16·4	29	1125	31	34
	5. ENGLAND, SOUTH	5	11	4 more.	109	15·4	35	1223	38	37
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	10	1 less.	134	25·3	25	1062	26	32
	7. ENGLAND, N.W.	5	9	1 more.	125	18·6	27	1041	29	31
	8. ENGLAND, S.W.	6	17	8 more.	131	22·6	42	1274	46	38
	9. IRELAND, NORTH	6	12	4 more.	142	21·1	16	980	17	29
	10. IRELAND, SOUTH	6	14	5 more.	134	26·6	34	1187	36	36
	— CHANNEL ISLANDS	6	11	4 more.	141	17·5	47	1554	52	47

General Remarks.

Weather has been cloudy or dull generally, with a great deal of rain in Ireland and England, but less than the average in Scotland. In the English and Irish districts much thunder and lightning was experienced.

Temperature has about equalled the mean in "England, S." and "Ireland, S.", but in all other localities it has continued low, the deficit being 1° or 2°. The maxima, which were registered on different days in the various districts, ranged from 63° in the north of Scotland, to 76° in the "Midland Counties". The minima were recorded in most places on the 1st, when the thermometer fell to 29° in "Scotland, N.", 31° in "Scotland, E.", and 32° in "England, N.W." In most other districts they ranged from 36° to 44°, but in the "Channel Islands" the lowest reading was 54°.

Rainfall has been rather less than the mean in Scotland, but more in England and Ireland.

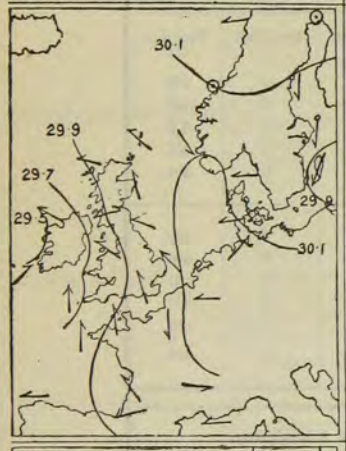
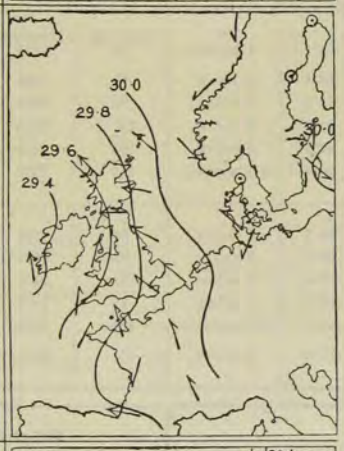
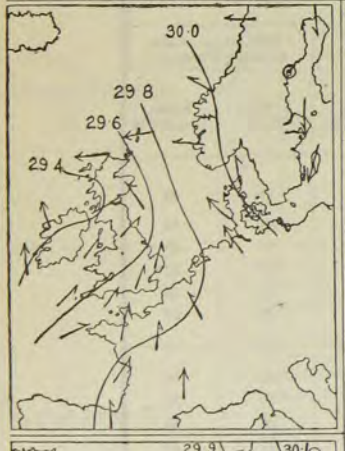
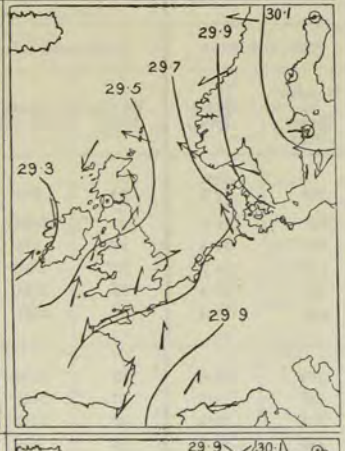
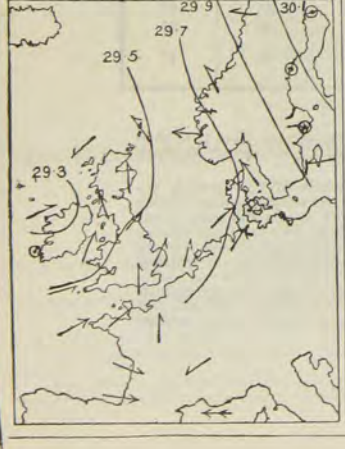
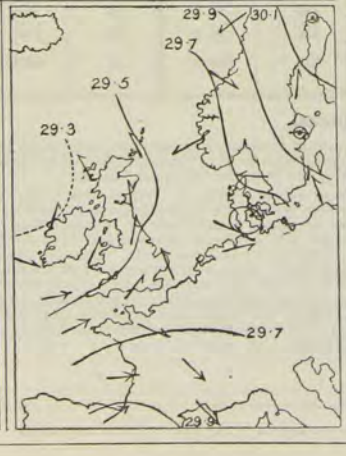
Bright sunshine shows a considerable decrease in the extreme north of Scotland, but a general increase elsewhere. The percentages of the possible amount of duration, however, were still rather low, varying from 17 to 36 in most districts, to 40 in "England, E.", 41 in "Scotland, E.", 46 in "England, S.W.", and 52 in the "Channel Islands".

Depressions observed.—During nearly the whole of this period, depressions moved in a northerly direction outside our western coasts, causing fresh or strong South-Easterly to South-Westerly winds and gales at our western and northern stations, and light to fresh breezes from similar directions in the east and south. The only depression that passed over our Islands was a shallow disturbance which travelled eastwards over England on the 7th, bringing variable winds and heavy rain in the south and south-east, and strong North-Westerly winds in its rear. A small but well defined depression was found over Denmark during the evening of the 4th, and moving slowly north-north-westwards, disappeared to the north-westward of Norway.

* These values are liable to some alteration owing to the non-arrival of the Return from Cambridge.

E 18869. 350.—9/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather during the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		Tuesday, September 1. *Weather* fine at first except in extreme west; heavy rain falling and thunder occurring subsequently in Ireland and at some Welsh stations, but weather remaining fair over England. *Temperature* rising in west; maxima low for time of year, those over England not rising above 66° or 67° as a rule. *Wind* North-Easterly in England, South-Easterly in Ireland, calm in Scotland. The South-Easterly wind in west subsequently increasing in force, and spreading as a light breeze to Great Britain. *Sea* rough in the far west. *Barometer* unsteady. Anticyclone lying over Great Britain, and separating a depression over south of Sweden from new one advancing in west. Gradients for South-Easterly winds in west increasing and spreading eastwards.	
		**Wednesday, September 2.** *Weather* becoming rough and squally, especially in west and north. Much rain reported generally (heaviest at Oxford) during day. *Temperature* rising at first, but daily maxima not differing very much from those of 1st. Air damp. *Wind* South-Easterly and Southerly; blowing a gale in the west and north and a fresh squally breeze elsewhere. Gale not extending to our south and east coasts. *Sea* rough generally in the west. *Barometer* falling considerably; depression in west moving very slowly to north-north-eastwards, followed by some subsidiary disturbances later on.	
		**Thursday, September 3.** *Weather* still rough and squally, but improving; rain again falling in many places, and thunderstorms occurring over England. Much rain in some parts of France. *Temperature* risen generally; maxima over England ranging from 70° to 73°. *Wind* more Southerly than on 2nd, South-Westerly in the south of England. Strong South-East gale in the north of Scotland at first, and moderate to fresh Southerly gales at some western stations; wind fresh to moderate over England. *Sea* still rough in extreme west and north, but going down elsewhere. *Barometer* unsteady here, rising over France. New depression appearing in far west during day, and moving northwards.	
		**Friday, September 4.** *Weather* rough, squally, showery, and unsettled; thunderstorms again in many places, and aurora seen in Ireland at night. Still very rainy and thundery in France. *Temperature* rather lower than on 3rd; the highest of the daily maxima being 70° in London and 71° at Loughborough. A maximum of 76° reported from Bawtry, but this seems doubtful. *Wind* South-Westerly, fresh over England, South-Easterly in Scotland, South-Westerly to Westerly in Ireland, and falling light. *Sea* rough at Sumburgh Head and Scilly. *Barometer* beginning to rise in west; depressions in north-west and north passing off. Small but well marked depression forming over Denmark in afternoon.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m.	6 p.m.

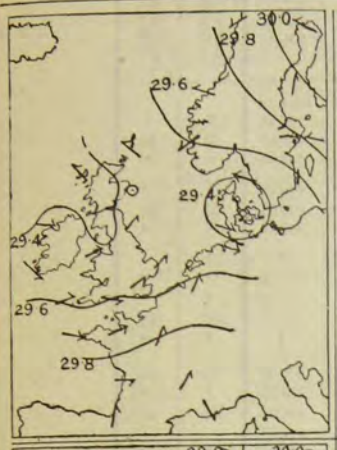
Weather

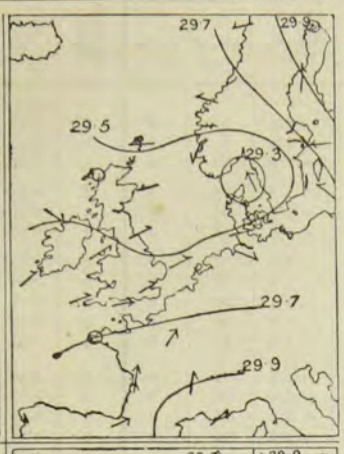
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Saturday, September 5.

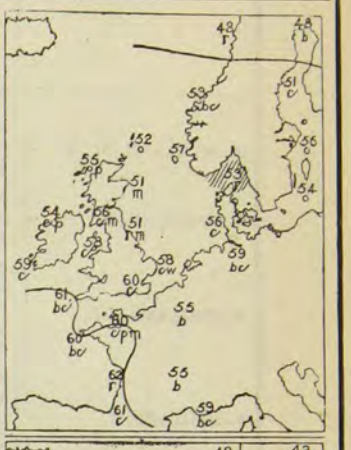
Weather improving, but still rather showery in places, with thunderstorms in the north-east of England.

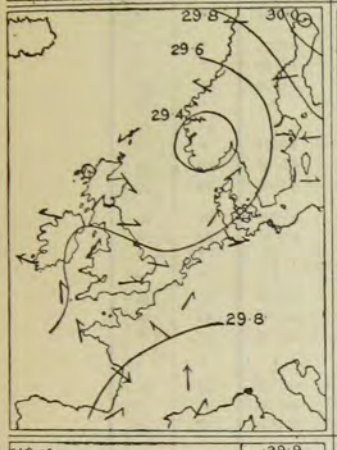
Temperature not materially changed; maximum in London 70° again, but only 67° at Loughborough and 65° at York.

Wind light to moderate; Westerly (South-West to North-West) over England and Ireland, South-Easterly in north of Scotland. Backing towards South in the west of Ireland at night.

Sea moderate to smooth.

Barometer rising generally. Pressure high over northern Europe and also over south of France. Depression in north-west and subsidiaries in north all passing off; that over Denmark moving northward to the Skager Rack by 6 p.m.





Sunday, September 6.

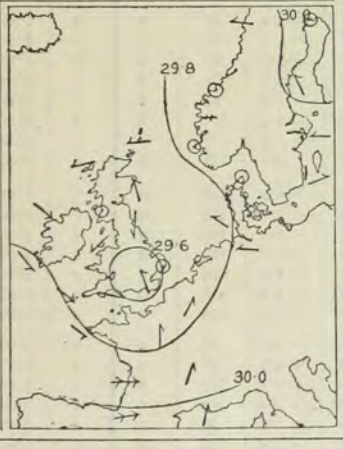
Weather finer than of late till night; change then taking place, and rain falling generally, except in Scotland, with lightning in the west.

Temperature changing irregularly; increasing during day to between 70° and 73° over our southern counties, but not exceeding 66° at York and 60° at Wick.

Wind back to South and South-East again in Ireland, and freshening for a time at Valencia. Southerly wind afterwards becoming general in the west, calms in Scotland and variable airs over England.

Sea rough at Valencia, smooth elsewhere.

Barometer rising except in west, and readings becoming much more uniform than of late. Pressure highest over France; ridge extending north-westwards over England.



Monday, September 7.

Weather greatly changed; rain falling generally, and at times heavily, except at the Scotch and some north-western stations. Thunderstorms over many parts of England and France.

Temperature fallen several degrees; low generally for time of year. Maxima over our Islands all below 70°.

Wind very variable—Southerly and South-Easterly over eastern parts of England, Northerly and North-Westerly in west. West-South-West gale over Bay of Biscay. The North-Westerly wind subsequently spreading, but not blowing strongly, except at Scilly.

Sea rough again at Valencia and Brest.

Barometer still rising over Northern Europe and France, but falling slightly over England. Sudden rise off west of Ireland, causing a depression to be formed over England, and to move eastwards to North Sea.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 141 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	56	41	54·7	45·4	49·8	− 2·8	55	0	2	0·64	−0·17	*	*
	Stornoway	62	42	60·3	48·4	54·1	+ 1·4	85	0	5	0·45	−0·47	24	25
	Wick	63	29	59·4	46·1	52·4	− 1·0	73	0	4	0·61	+0·01	*	*
1. SCOTLAND, E.	Nairn	65	31	62·4	44·0	52·8	− 1·4	76	0	4	0·41	−0·27	*	*
	Aberdeen	64	33	61·7	45·3	53·1	− 1·4	78	0	4	0·67	−0·03	39	41
	Leith	68	34	62·0	46·7	54·0	− 1·8	84	0	3	0·10	−0·50	*	*
2. ENGLAND, N.E.	Alnwick Castle	65	42	59·4	46·6	53·7	− 1·0	82	0	3	0·73	?	*	*
	Shields	66	38	61·9	46·7	53·9	− 1·5	83	0	3	0·46	−0·14	*	*
	Scarborough ℔	67	44	61·4	49·6	55·2	− 1·4	92	0	5	0·71	+0·03	*	*
	York	70	36	64·9	45·6	54·8	− 1·9	90	0	4	0·54	−0·13	25	27
	Spurn Head	66	47	61·1	51·0	55·8	− 1·3	97	0	4	0·63	?	*	*
3. ENGLAND, E.	Hillington ℔	71	40	67·0	47·0	56·5	− 1·3	102	0	5	1·46	+0·84	35	38
	Yarmouth	67	50	63·4	53·7	58·3	− 0·8	114	0	5	0·97	+0·32	*	*
	Geldeston	70	38	65·9	48·0	56·5	− 2·2	102	0	5	0·98	+0·39	38	41
	Cambridge	73	41	68·0	48·9	58·0	− 1·4	112	0	5	0·72	+0·18		
	Rothamsted	70	40	66·2	48·7	57·0	− 1·9	105	0	6	1·05	+0·39	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	76	42	69·3	43·9	55·8	− 2·0	97	0	6	0·46	−0·16	*	*
	Loughborough	71	45	66·7	48·7	57·3	− 0·6	107	0	5	0·99	+0·30	*	*
	Leicester	71	47	67·1	50·3	58·3	+ 0·3	114	0	4	0·71	+0·02	31	33
	Cheadle ℔	66	45	62·6	48·2	55·1	− 1·9	92	0	6	1·08	?	*	*
	Churchstoke ℔	68	45	63·1	48·3	55·3	− 1·9	93	0	7	1·04	?	26	28
	Hereford ℔	73	45	68·7	49·1	58·4	0·0	115	0	6	0·97	+0·24	*	*
	Cirencester	66	37	64·4	46·4	55·0	− 3·4	91	0	6	1·50	+0·68	25	27
	Oxford	68	47	65·1	51·7	58·1	− 1·0	113	0	5	1·69	+1·02	34	37
5. ENGLAND, S.	London†	72	47	69·0	51·7	59·9	− 0·3	125	0	5	1·08	+0·49	28	30
	Marlborough ℔	68	47	65·8	49·7	57·4	− 0·2	108	0	6	1·42	+0·57	29	32
	Strathfield Turgiss ℔	74	44	68·2	51·5	59·5	+ 0·1	123	0	?	?	?	*	*
	Dungeness	67	55	65·6	56·7	60·9	+ 1·2	132	0	5	0·48	?	*	*
	Hastings (St. Leonard's)	66	51	64·4	55·9	60·0	+ 0·3	126	0	4	0·45	−0·19	41	45
	Southampton	70	47	67·2	53·1	59·8	+ 0·5	125	0	6	2·02	+1·28	42	46
	Hurst Castle	68	50	66·4	56·1	61·0	+ 1·5	133	0	4	0·92	+0·22	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	65	44	60·0	49·5	54·5	− 1·0	88	0	5	1·74	?	*	*
	Glasgow	63	36	60·9	47·0	53·6	− 1·4	81	0	4	0·51	−0·47	22	23
	Ardrossan	63	40	60·9	49·0	54·6	− 0·6	88	0	5	0·92	−0·03	*	*
	Douglas (Isle of Man)	62	45	60·4	52·5	56·3	+ 0·6	100	0	5	0·85	+0·10	27	29
7. ENGLAND, N.W.	Newton Reigny (Penrith)	65	32	61·1	45·5	52·9	− 2·4	76	0	6	1·34	?	26	28
	Barrow-in-Furness	65	46	61·4	51·0	56·0	− 1·3	98	0	4	0·48	?	*	*
	Stonyhurst	65	43	61·0	48·9	54·7	− 2·2	89	0	5	0·72	−0·48	24	26
	Blackpool ℔	68	43	62·9	48·4	55·3	− 2·6	93	0	5	0·66	−0·11	32	34
	Manchester	67	46	63·5	49·4	56·1	− 1·6	99	0	5	2·41	+1·52	*	*
	Liverpool Obsy (Bidston)	67	50	63·3	51·0	56·9	− 1·5	104	0	4	0·78	0·00	*	*
	Llandudno ℔	67	49	63·7	52·0	57·6	− 1·2	109	0	3	0·28	−0·49	26	28
	Holyhead	64	51	62·4	54·3	58·2	0·0	113	0	4	0·66	−0·09	*	*
8. ENGLAND, S.W.	Llandovery	69	45	65·7	52·0	58·5	+ 0·6	116	0	7	1·35	?	*	*
	Pembroke	62	53	61·4	55·3	58·2	+ 2·0	113	0	7	2·40	+1·60	38	41
	Arlington (N. Devon)	67	45	63·7	51·3	57·2	− 0·1	106	0	7	2·08	?	*	*
	Cullompton ℔	69	44	67·2	50·0	58·2	− 0·8	113	0	7	1·56	?	45	49
	Falmouth	66	52	63·7	54·3	58·8	− 0·6	118	0	6	2·28	+1·18	46	50
	Plymouth	66	51	64·2	54·1	58·9	− 1·1	118	0	5	1·92	+1·02	40	43
	Prawle Point	64	52	62·9	54·9	58·7	− 3·5	120	0	4	0·28	?	*	*
9. IRELAND, N.	Malin Head	64	47	60·0	51·0	55·3	+ 0·3	93	0	6	0·99	?	*	*
	Londonderry	68	37	64·1	49·0	56·2	+ 0·5	99	0	6	0·47	−0·40	*	*
	Mullaghmore	64	51	61·4	52·9	57·0	+ 0·1	105	0	6	1·00	?	*	*
	Belmullet	63	49	60·4	52·3	56·2	+ 0·4	99	0	6	1·40	?	*	*
	Markree Castle	65	38	62·3	48·1	54·9	− 1·7	90	0	7	1·37	+0·57	17	18
	Brookeborough	63	38	61·2	48·1	54·3	− 2·4	86	0	5	1·86	?	*	*
	Armagh	65	42	61·8	47·6	54·4	− 2·2	87	0	6	0·98	+0·31	14	15
	Donaghadee	65	39	61·0	49·7	55·1	− 0·6	92	0	5	1·24	+0·54	*	*
	Edgeworthstown	67	47	63·7	50·1	56·6	− 0·8	102	0	6	1·18	?	*	*
10. IRELAND, S.	Dublin	68	47	64·5	52·0	58·0	+ 1·0	112	0	6	1·15	+0·55	31	33
	Parsonstown	68	47	63·6	50·0	56·5	− 1·1	102	0	?5	?1·05	?+0·25	32	34
	Kilkenny	67	47	63·4	50·3	56·5	− 1·0	102	0	5	1·55	?	*	*
	Waterford	67	45	64·9	49·7	56·9	− 0·6	104	0	6	2·07	+1·17	*	*
	Roche's Point	67	51	63·7	53·3	58·3	+ 0·3	114	0	7	1·54	+0·57	*	*
	Valencia	66	51	63·9	53·7	58·6	+ 0·8	116	0	6	2·23	+1·12	38	41
	Killarney	69	49	64·5	52·4	58·2	+ 0·1	113	0	7	1·03	?	*	*
	Foynes	70	44	62·6	50·7	56·4	− 1·1	101	0	6	0·62	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	54	64·4	55·6	59·8	− 0·2	125	0	6	1·54	+0·74	*	*
	Jersey (Noirmont)	67	54	64·1	56·3	60·0	− 1·0	126	0	5	0·71	+0·03	47	52

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 37.] *New Series.* WEEK ENDING MONDAY, 14TH SEPTEMBER, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 148.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	63	35	57·7	46·7	51·9	0 (average).	69	1282	0	532
	1. SCOTLAND, EAST	66	36	61·6	45·6	53·2	1 below.	78	1806	0	565
	2. ENGLAND, N.E.	67	42	61·6	48·6	54·9	0 (average).	90	1942	0	455
	3. ENGLAND, EAST	70	41	63·7	48·9	55·9	2 below.	97	2283	0	559
	4. MIDLAND COUNTIES	70	43	63·7	47·9	55·5	1 below.	95	2248	0	558
	5. ENGLAND, SOUTH‡	70	46	63·7	51·5	57·3	1 below.	107	2527	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST‡	64	40	57·9	48·4	52·9	1 below.	76	1778	0	453
	7. ENGLAND, N.W.	68	38	60·6	49·1	54·6	2 below.	88	1948	0	425
	8. ENGLAND, S.W.	68	43	61·4	50·6	55·7	1 below.	96	2245	0	331
	9. IRELAND, NORTH	65	37	60·4	47·2	53·5	1 below.	81	1959	0	407
	10. IRELAND, SOUTH	69	39	62·2	48·6	55·1	2 below.	92	2250	0	328
	— CHANNEL ISLANDS	66	49	62·3	54·8	58·2	2 below.	113	2477	0	106

	DISTRICTS. (See p. 148.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	12	4 more.	170	21·2	22	1011	24	29
	1. SCOTLAND, EAST	6	10	4 more.	127	15·5	35	1169	39	34
	2. ENGLAND, N.E.	5	7	1 more.	122	15·1	27	802	30	23
	3. ENGLAND, EAST	6	18	12 more.	118	16·5	28	1227†	31	36
	4. MIDLAND COUNTIES	7	15	8 more.	127	17·9	28	1153	31	33
	5. ENGLAND, SOUTH‡	6	16	9 more.	115	17·0	24	1249*	28	37
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	7	28	12 more.	141	28·1	29	1091	32	32
	7. ENGLAND, N.W.	7	17	8 more.	132	20·3	30	1071	34	31
	8. ENGLAND, S.W.	6	24	14 more.	137	25·0	24	1298	27	38
	9. IRELAND, NORTH	6	20	12 more.	148	23·1	27	1007	30	29
	10. IRELAND, SOUTH	7	18	9 more.	141	28·5†	34	1221	38	36
	— CHANNEL ISLANDS	5	11	3 more.	146	18·6	43	1597	48	47

General Remarks.

Weather has been in a very changeable, unsettled condition in all parts of the Kingdom, with large quantities of rain and occasional thunder and lightning.

Temperature has about equalled the mean in "Scotland, N." and "England, N.E.", but has been 1° or 2° below in all other districts. The maxima, which were recorded on different days in the various districts, ranged from 63° to 66° in Scotland, between 65° and 69° in Ireland, and from 67° to 70° over England. The minima were registered either on the 11th or 12th, when the thermometer fell to 35° in "Scotland, N.", 36° in "Scotland, E.", and to between 38° and 43° in most other districts; in "England, S.W.", however, the lowest reading was 45°, in "England, S." 46°, and in the "Channel Islands" 49°.

Rainfall has been more than the mean in all districts, the excess being very large in all except the extreme northern and north-eastern parts of the Kingdom. During the night of the 10th-11th the fall over the greater part of England was between 1 in. and 2 ins., while in some localities it was even greater; thus, at Cullompton 2·17 ins. were measured, at Tiverton 2·24 ins., at Street (Somerset) 2·50 ins., and at Taunton 3·05 ins.

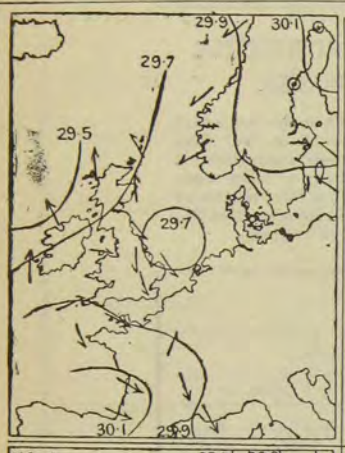
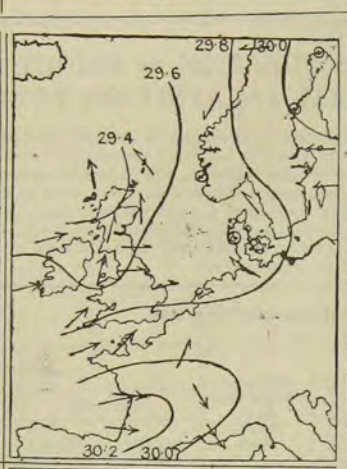
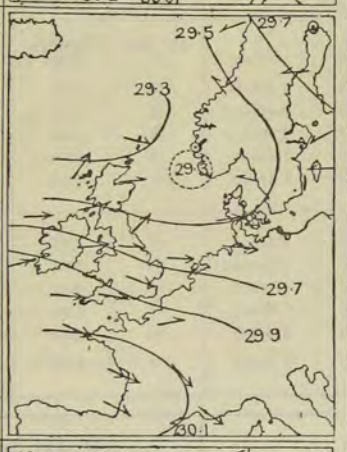
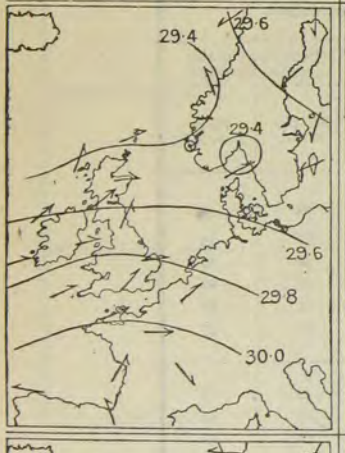
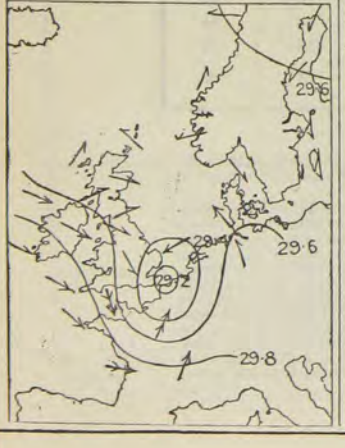
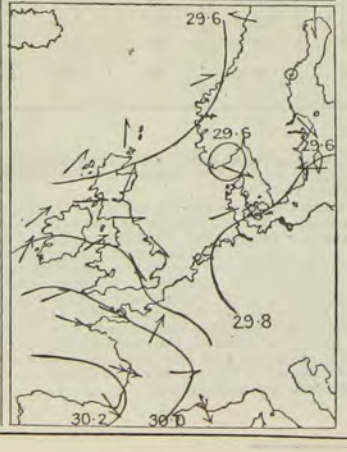
Bright sunshine shows a decrease in most districts, the percentage of the possible amount of duration varying from 24 to 39 in most places, to 48 in the "Channel Islands".

Depressions observed.—During the whole of this period a series of somewhat extensive and deep depressions has skirted our western and north-western coasts, causing occasional strong winds or gales in all parts of the Kingdom. In addition to these disturbances some smaller ones have occasionally appeared more directly over us; thus, the shallow depression, noticed at the close of last week as travelling eastwards over England, moved slowly in a north-easterly and north-north-easterly direction over the North Sea, and on the night of the 10th-11th a well defined and deep depression, which had been formed near the Scilly Islands during the previous afternoon, travelled eastwards up the English Channel, bringing moderate to strong gales, at first from the southward and afterwards from the northward and north-westward to all our southern stations, and a violent Westerly gale over France.

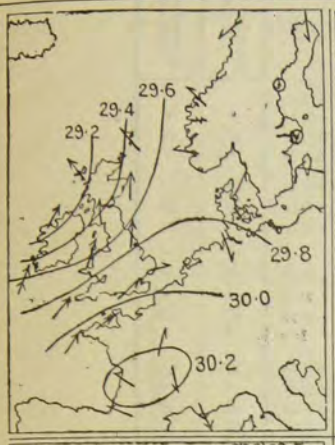
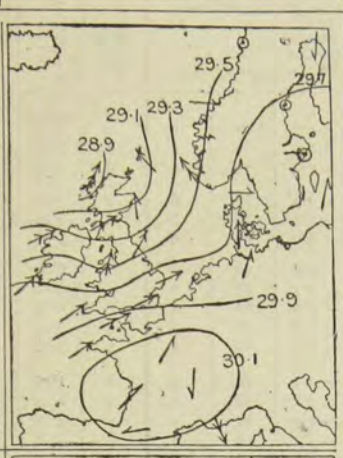
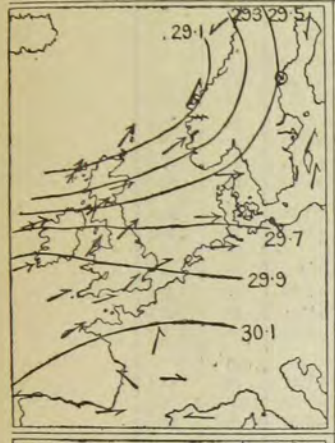
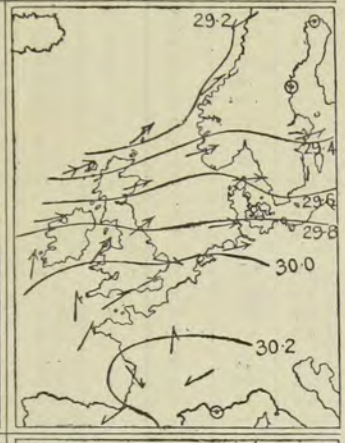
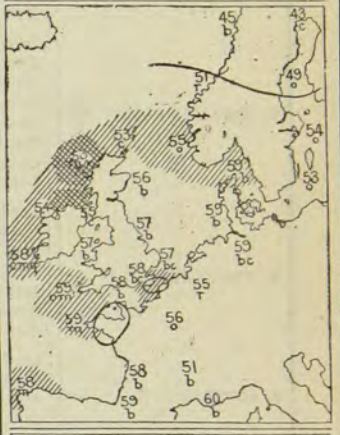
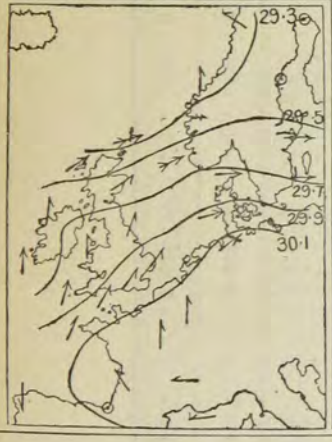
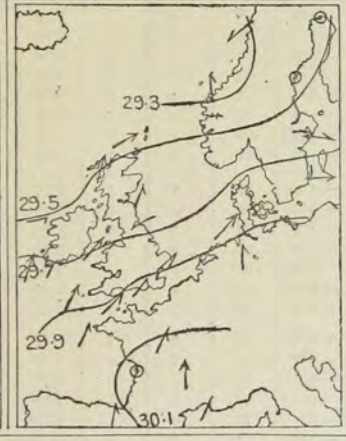
* This value has been altered slightly owing to a correction in the Return from Marlborough.
† These values have been altered a little owing to the receipt of some arrears of observations.
‡ The accumulated values in these district are liable to alteration in consequence of the non-arrival of the Returns from Strathfield Turgiss and Douglas.

B 18629. 350.—9/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, September 8.** *Weather* showery and changeable, but milder than on the 17th; rainfall not large at any station. Thunderstorms in west at night. *Temperature* rising; daily maxima over England ranging from 65° to 70°. *Wind* Southerly and South-Westerly, strong to a gale in west and extreme north; North-Westerly to South-Westerly moderate over England. The South-Westerly wind afterwards becoming strong at English stations. *Sea* rough in west and south-west, and afterwards in the south also. *Barometer* falling. New depression arriving off our north-west coasts; yesterday's system moving to North Sea and becoming subsidiary to that of to-day.	
		**Wednesday, September 9.** *Weather* cloudy, squally, and rather unsettled, with slight showers in several places; thunder and lightning in many parts of England. *Temperature* rather lower and air drier than on the 8th. Maxima at our inland stations 60° to 64°. *Wind* Westerly and strong; a moderate gale felt at some exposed stations. *Sea* rough in the west and south. *Barometer* rising. Yesterday's depressions passing slowly north-eastwards away from our Islands. Gradients for westerly winds becoming general.	
		**Thursday, September 10.** *Weather* fair generally at first, and continuing so in the north all day. Becoming exceptionally rough in the south-west and south later, with very heavy rainfall—fall ranging from one to three inches in many places. *Temperature* risen at first; afterwards changing irregularly but not greatly. *Wind* moderate from West-South-West at first. Southerly gales, followed by North-Westerly gales very generally in Channel and south of England later on. Strong South-West to North-West gales in France. The North-West gale was very severe at Scilly and the Southerly gale at Jersey. *Sea* rough in south-west and west; afterwards running high in the south. *Barometer* highest over France and lowest to northward of our Islands; gradients moderate at first. Deep but small depression forming near Scilly in afternoon, and then moving quickly up the Channel in an Easterly direction.	
		**Friday, September 11.** *Weather* still very rough in south-east, improving in south-west, fair in northern districts. Improvement extending to our south-eastern counties later. *Temperature* fallen generally; daily maxima very little above 60° anywhere. *Wind* North-Westerly strong and squally in south; North-Easterly to Northerly gale in east. Very light Westerly breezes in Scotland. Strong North-Westerly gales in France, and South-Westerly to North-Westerly in Belgium. Wind lulling subsequently; then backing towards West in the south and to South-West in the north. *Sea* very rough except in the north and north-east. *Barometer* rising—rapidly in the south. Depression noticed yesterday lying over Straits of Dover at 8 a.m., and moving eastwards to Germany later on.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, September 12.** *Weather* breaking up again, first in the west and north-west and afterwards in south. Rain falling generally, most in the north and north-west. *Temperature* rising, air mild and damp, but maximum temperatures not high. *Wind* Southerly and South-Westerly; gales in west and north, and afterwards in south also, but not very severe anywhere. *Sea* rough in north-west, west, and south-west, and afterwards in the south. *Barometer* falling again. New and large depression in the north-west moving north-eastwards; barometer falling to nearly 28·8 ins. at Stornoway.	
		**Sunday, September 13.** *Weather* finer than on 12th except in north, where more rain fell. Becoming unsettled again in Ireland at night. *Temperature* not materially altered, rather low for time of year. *Wind* Westerly, gales in north, moderate to fresh breezes in south. Backing to the Southward in Ireland and at Scilly later. *Sea* still high in north and north-west, gone down greatly in south, smooth in east. *Barometer* rising generally; gradients for westerly winds decreasing. Fresh fall commencing in west at night.	
		**Monday, September 14.** *Weather* becoming unsettled again, with rain, more or less, in nearly all parts of the Kingdom, heaviest in Ireland. *Temperature* little changed at first; afterwards increasing to between 65° and 70° over England. *Wind* Southerly and South-Westerly, fresh to strong in force, afterwards veering in the west. *Sea* high in north, and becoming rough in south-west and west again. *Barometer* falling, except in north, where recovery from Saturday's storm continued. New depression appearing off west of Ireland in morning, but subsequently dispersing almost entirely, and passing away northwards. Barometer then rising in Ireland.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 145 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	58	43	56·3	47·0	51·4	− 0·3	66	0	4	0·78	−0·04	•	•
	Stornoway	60	42	57·3	47·7	52·2	+ 0·7	71	0	7	1·74	+0·79	22	24
	Wick	63	35	59·4	45·3	52·0	− 0·4	70	0	6	0·92	+0·29	•	•
1. SCOTLAND, E.	Nairn	66	39	61·7	45·6	53·3	+ 0·1	79	0	6	0·81	+0·15	•	•
	Aberdeen	64	36	62·0	44·4	52·8	− 0·4	76	0	6	0·96	+0·16	35	39
	Leith	64	42	61·0	46·9	53·6	− 1·2	81	0	7	1·34	+0·74	•	•
2. ENGLAND, N.E.	Alnwick Castle	64	42	60·4	47·7	53·8	− 0·2	83	0	6	0·69	?	•	•
	Shields	63	42	61·3	47·9	54·3	− 0·1	86	0	5	0·55	−0·06	•	•
	Scarborough ℳ	64	46	61·5	49·2	55·1	− 0·5	92	0	5	0·82	+0·12	•	•
	York	67	45	64·0	47·7	55·5	− 0·2	95	0	6	0·55	−0·16	27	30
	Spurn Head	65	49	61·0	50·6	55·6	− 0·7	95	0	5	0·99	?	•	•
3. ENGLAND, E.	Hillington ℳ	67	45	63·5	48·7	55·7	− 0·7	96	0	6	1·49	+0·84	22	24
	Yarmouth	68	46	62·7	50·7	56·4	− 1·3	101	0	6	1·56	+0·86	•	•
	Geldeston	69	46	63·3	49·4	56·0	− 1·4	98	0	6	2·56	+1·93	33	37
	Cambridge	70	44	65·0	48·1	56·1	− 2·3	99	0	6	1·45	+0·89	28	31
	Rothamsted	68	41	64·0	47·5	55·4	− 2·1	94	0	6	1·95	+1·25	•	•
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	70	43	65·6	47·0	55·9	− 0·7	97	0	7	0·70	+0·05	•	•
	Loughborough	70	48	65·1	49·9	57·3	+ 0·5	107	0	7	1·57	+0·83	•	•
	Leicester	69	47	64·8	48·3	56·2	− 0·4	99	0	7	1·69	+0·99	25	28
	Cheadle ℳ	68	44	61·5	45·7	53·2	− 1·3	78	0	7	1·45	?	•	•
	Churchstoke ℳ	67	45	61·6	47·9	54·4	− 1·6	87	0	7	1·13	?	32	36
	Hereford ℳ	68	44	64·9	47·0	55·5	− 1·5	95	0	6	1·51	+0·72	•	•
	Cirencester	68	45	62·4	47·3	54·5	− 3·6	88	0	6	2·06	+1·21	24	27
	Oxford	70	49	63·9	50·0	56·6	− 1·0	102	0	6	1·83	+1·13	29	33
5. ENGLAND, S.	London†	69	48	64·9	50·6	57·4	− 1·5	108	0	5	1·38	+0·78	20	22
	Marlborough ℳ	67	46	63·2	47·6	55·0	− 1·4	91	0	5	2·37	+1·47	28§	31§
	Strathfield Turgiss ℳ												•	•
	Dungeness	67	47	63·7	52·6	57·9	− 0·8	111	0	5	1·36	?	•	•
	Hastings (St. Leonard's)	67	49	62·8	52·4	57·2	− 1·2	106	0	7	1·37	+0·69	22	25
	Southampton	68	49	63·3	51·3	57·0	− 0·6	105	0	6	1·80	+1·01	24	27
	Hurst Castle	70	50	64·4	54·4	59·2	+ 1·1	120	0	7	1·36	+0·57	•	•
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	64	46	58·1	50·0	53·9	− 0·6	83	0	7	5·10	?	•	•
	Glasgow	63	40	58·2	46·0	51·8	− 2·5	69	0	7	2·21	+1·21	22	24
	Ardrossan	59	47	57·4	49·1	53·1	− 0·9	78	0	7	1·70	+0·75	•	•
	Douglas (Isle of Man)	60	42	—	—	—	—	—	—	6	2·25	+1·55	35	39
7. ENGLAND, N.W.	Newton Reigny (Penrith)	61	38	59·2	45·4	52·0	− 2·0	70	0	7	1·50	?	34	38
	Barrow-in-Furness	60	49	59·3	51·0	55·0	− 0·9	91	0	6	2·01	?	•	•
	Stonyhurst	62	41	59·7	44·6	51·8	− 3·5	69	0	6	2·04	+0·83	28	31
	Blackpool ℳ	66	41	60·6	48·9	54·5	− 1·7	88	0	7	1·98	+1·09	32	36
	Manchester	68	46	63·7	47·0	55·0	− 1·3	91	0	7	1·97	+1·05	•	•
	Liverpool Obsy (Bidston)	65	49	61·1	51·1	55·9	− 1·3	97	0	7	1·55	+0·70	•	•
	Llandudno ℳ	66	51	61·6	52·3	56·7	− 1·3	103	0	5	0·75	−0·07	27	30
	Holyhead	61	51	59·6	52·6	55·9	− 1·6	97	0	7	1·46	+0·67	•	•
8. ENGLAND, S.W.	Llandovery	64	43	61·7	48·3	54·7	− 1·8	89	0	7	3·21	?	•	•
	Pembroke	61	49	59·6	52·9	56·1	+ 0·9	99	0	6	2·10	+1·24	24	27
	Arlington (N. Devon)	65	46	60·6	48·9	54·5	− 1·8	88	0	6	3·73	?	•	•
	Cullompton ℳ	68	45	63·8	49·3	56·2	− 1·8	99	0	6	2·72	?	27	30
	Falmouth	63	49	61·1	51·4	56·0	− 2·6	98	0	6	2·48	+1·29	22	25
	Plymouth	64	49	62·4	51·4	56·6	− 2·4	102	0	7	1·40	+0·40	22	25
	Prawle Point	63	48	60·4	51·9	56·0	− 0·2	98	0	7	0·96	?	•	•
9. IRELAND, N.	Malin Head	62	47	59·3	49·3	54·1	+ 0·4	85	0	7	1·87	?	•	•
	Londonderry	63	43	60·3	47·1	53·4	− 1·1	80	0	6	1·25	+0·36	•	•
	Mullaghmore	62	47	59·6	49·7	54·4	− 1·3	87	0	6	2·31	?	•	•
	Belmullet	63	47	59·3	50·7	54·8	0·0	90	0	7	2·90	?	•	•
	Markree Castle	64	37	60·6	45·0	52·4	− 3·4	73	0	7	1·75	+0·95	26	29
	Brookeborough	62	40	60·5	44·9	52·3	− 3·2	72	0	7	2·13	?	•	•
	Armagh	64	41	61·8	46·3	53·7	+ 0·2	82	0	7	1·95	+1·25	28	31
	Donaghadee	65	42	61·1	47·1	53·8	+ 0·9	83	0	6	1·43	+0·73	•	•
	Edgeworthstown	64	38	61·4	44·6	52·6	− 2·0	74	0	5	2·26	?	•	•
10. IRELAND, S.	Dublin	69	43	63·3	48·9	55·8	+ 0·1	97	0	7	0·64	+0·04	40	44
	Parsonstown	67	41	62·0	46·4	53·8	− 3·2	83	0	7	2·34	+1·54	35	39
	Kilkenny	66	39	62·3	45·3	53·4	− 3·1	80	0	6	1·24	?	•	•
	Waterford	64	40	61·4	46·3	53·5	− 2·6	81	0	6	1·35	+0·45	•	•
	Roche's Point	63	48	61·9	50·6	56·0	− 0·7	98	0	7	2·15	+1·11	•	•
	Valencia	64	49	62·1	51·3	56·4	− 0·8	101	0	7	2·19	+1·04	28	31
	Killarney	65	43	62·1	49·8	55·7	− 1·4	96	0	6	2·56	?	•	•
	Foynes	69	48	62·5	50·3	56·1	− 0·7	99	0	7	2·17	?	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	63	49	61·7	54·0	57·7	− 1·5	110	0	6	1·61	+0·76	•	•
	Jersey (Noirmont)	66	51	62·9	55·6	58·6	− 1·7	116	0	3	0·52	−0·25	43	48

Stations marked ℳ are in connection with the Royal Meteorological Society.

• An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ The corresponding values for last week should be "36" and "39."

Note.—The Return from Douglas is incomplete.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 38.] *New Series.* WEEK ENDING MONDAY, 21ST SEPTEMBER, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 152.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	59	35	55·3	43·6	49·2	2 below.	50	1332	0	532
	1. SCOTLAND, EAST	68	38	61·5	45·4	53·0	1 above.	77	1883	0	565
	2. ENGLAND, N.E.	72	41	62·2	48·5	55·0	1 above.	91	2033	0	455
	3. ENGLAND, EAST	78	41	63·2	49·6	56·0	0 (average).	98	2381	0	559
	4. MIDLAND COUNTIES‡	77	39	65·4	47·8	56·2	1 above.	99	2347	0	558
	5. ENGLAND, SOUTH	76	41	64·6	51·5	57·8	1 above.	111	2640*	0	402
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	61	37	57·8	46·1	51·7	1 below.	68	1846	0	453
	7. ENGLAND, N.W.	68	35	61·0	48·7	54·5	1 below.	88	2036	0	425
	8. ENGLAND, S.W.	70	32	63·4	48·9	55·8	0 (average).	97	2342	0	331
	9. IRELAND, NORTH	64	34	58·9	46·2	52·2	2 below.	71	2030	0	407
	10. IRELAND, SOUTH ‡	66	37	61·4	46·8	53·7	2 below.	82	2332	0	328
	— CHANNEL ISLANDS	71	51	62·3	54·6	58·3	1 below.	114	2591	0	106

	DISTRICTS. (See p. 152.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	14	5 more.	177	22·6	28	1039	32	29
	1. SCOTLAND, EAST	5	8	1 more.	132	16·3	33	1202	38	34
	2. ENGLAND, N.E.	3	1	5 less.	125	15·2	41	843	48	24
	3. ENGLAND, EAST	5	7	0 (average).	123	17·2	35	1262	40	36
	4. MIDLAND COUNTIES‡	4	2	5 less.	131	18·1	38	1191	44	34
	5. ENGLAND, SOUTH	4	8	1 more.	119	17·8	30	1279	34	37
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	18	5 more.	146	29·9	27	1118	31	32
	7. ENGLAND, N.W.	4	6	4 less.	136	20·9	33	1104	38	31
	8. ENGLAND, S.W.	4	6	5 less.	141	25·6	35	1333	40	38
	9. IRELAND, NORTH	5	9	1 more.	153	24·0	18	1025	20	29
	10. IRELAND, SOUTH ‡	4	8	1 less.	145	29·3	23	1244	27	35
	— CHANNEL ISLANDS	5	7	2 less.	151	19·3	32	1632†	37	47

General Remarks.

Weather has been in a very changeable condition generally, some days being very dull and rainy, and others fine and genial. In the south and south-east thunder and lightning were experienced.

Temperature has been 1° or 2° below the mean in Ireland, the greater part of Scotland, in "England, N.W.", and the "Channel Islands", but about equal to, or 1° above, its normal value in most of the English districts and in the east of Scotland. The maxima were recorded in most places on the 15th, when the thermometer rose to between 59° and 68° in the northern and western parts of the Kingdom, and to 76°, 77°, or 78° over central, southern, and south-eastern England. The minima, which were generally registered either on the 17th or 18th, varied from 32° in "England, S.W." (at Llandovery), and 34° in "Ireland, N.", to 41° in the east, north-east, and south of England, and to 51° in the "Channel Islands."

Rainfall has varied considerably in different localities. Over Scotland, the south of England, and in the north of Ireland it has been more than the mean, in "England, E." about equal to it, while elsewhere a deficit is shown. Over central and north-eastern England the fall has been very slight.

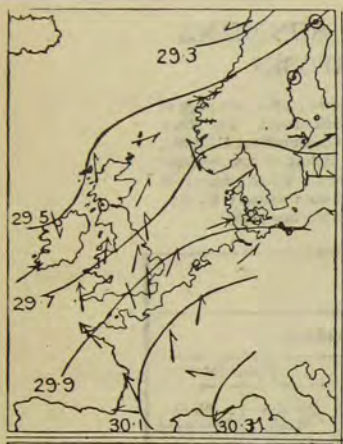
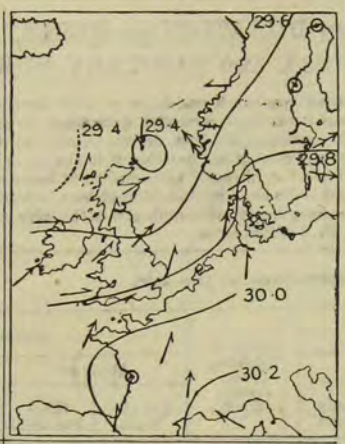
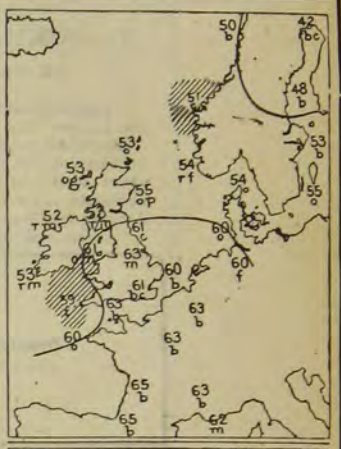
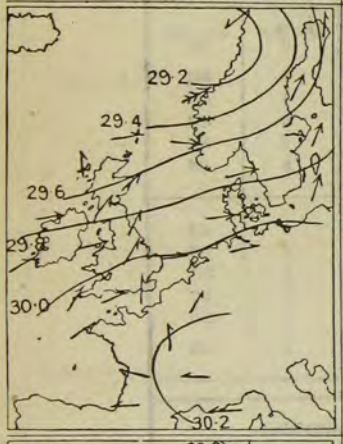
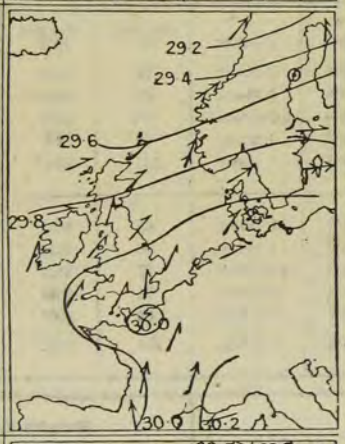
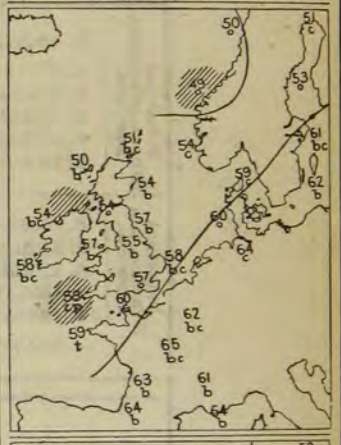
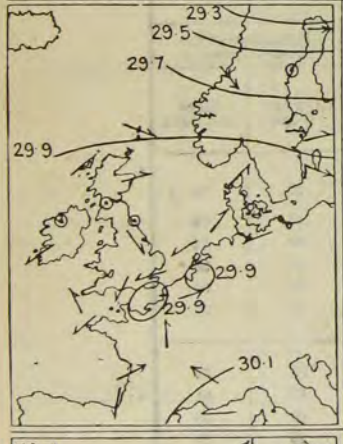
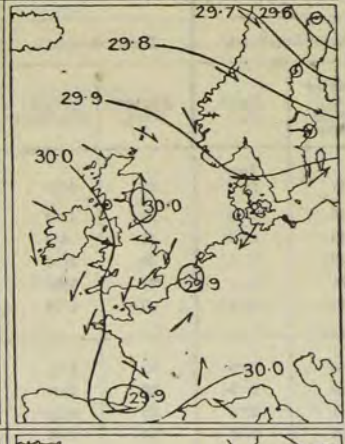
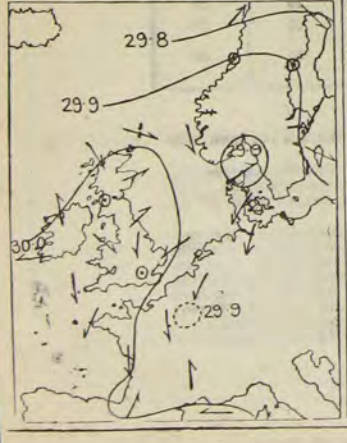
Bright sunshine shows an increase in most of the wheat-producing districts and also over the west of England, but a decrease elsewhere. The percentages of the possible amount of duration ranged from 20° in "Ireland, N," to 48° in "England, N.E."

Depressions observed.—Very changeable, unsettled conditions have prevailed during this period. Several depressions have moved in a north-easterly direction outside our western and northern coasts, the most important one being observed during the 19th. This depression brought moderate to strong Southerly to Westerly gales to all our western and northern stations, and fresh South-Westerly winds to the south and east. During the 16th, 17th, and 18th some small shallow disturbances passed eastwards over the north of France, causing Easterly breezes and thunder storms over our southern and south-eastern counties.

* This value has been altered slightly owing to the receipt of some arrears of observations.
† This value has been altered slightly in consequence of some corrections to the Returns from Jersey.
‡ The accumulated values in these districts are liable to alteration owing to the non-arrival of the Returns from Leicester and Foynes.

E 19022. 350.—9/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

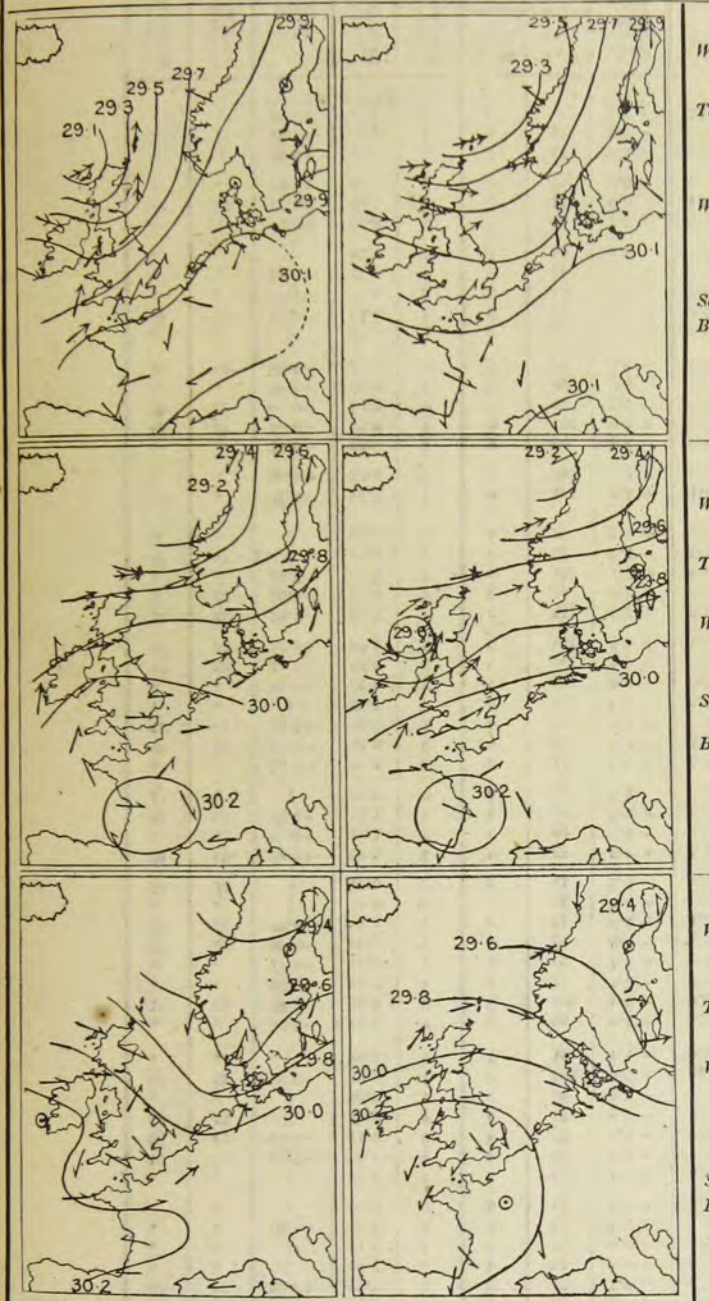
Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, September 15.** *Weather* rainy and unsettled on all our western and northern coasts, but fine and bright over the greater part of England; fog prevailing at the mouth of the Channel. Some improvement taking place in Ireland later. *Temperature* risen quickly over England; maxima at inland stations varying between 72° and 78°. Thermometer in north of Scotland not reaching 60°. *Wind* chiefly Southerly or South-Westerly, and light to fresh in force. *Sea* rough in the Irish Sea and St. George's Channel; moderate to smooth elsewhere. *Barometer* rising at our northern, eastern, and most of the Continental stations, but falling on our west and south-west coasts. Pressure highest in south-east of France, with depressions moving north-eastwards along the Irish and Scotch coasts. Fall spreading eastwards later, but slight rise taking place in Ireland.	
		**Wednesday, September 16.** *Weather* dull at some of our southern stations and thundery in the north-west of France, but fair or fine elsewhere. Heavy rain falling in south of England at night, with thunderstorms in some places. *Temperature* fallen a little at most stations; readings ranging from 60° at Hurst Castle to 50° at Stornoway. Maxima over England about 10° lower than on previous day. *Wind* Easterly in the south-west of France, but South-Westerly elsewhere; moderate to fresh in force generally, but violent West-South-West gale blowing at Christiansund. Subsequently backing to South-East on the Channel coasts. *Sea* rather rough at Malin Head and Scilly; moderate to smooth elsewhere. *Barometer* rising at all but the Scandinavian stations. Pressure highest south-east of France, with rather deep depression off the north-west of Norway. Shallow disturbance appearing over north of France later, occasioning slight fall of barometer on our southern coasts.	
		**Thursday, September 17.** *Weather* rainy in the south-east of England, as well as at Malin Head and Rochefort, but generally fine elsewhere, with, however, local fogs. Some improvement taking place in south-east later, and fog clearing off in most other localities. *Temperature* fallen a little at all but the French stations; readings ranging from 59° at Prawle Point to 46° at York and Parsonstown. Maximum in London only 59°. *Wind* fresh Westerly in Scandinavia and light North-Easterly on our southern coasts, but variable at our central and northern stations. North-Westerly breezes subsequently appearing in west. *Sea* moderate to smooth. *Barometer* falling at our southern and the French stations, but rising elsewhere. Pressure highest in the south-east of France, and lowest in the north of Scandinavia, but shallow disturbances lying over the Netherlands and the eastern part of the Channel. Depressions moving eastwards later, and barometer rising in south.	
		**Friday, September 18.** *Weather* rainy in the north-east of France, but fair or fine elsewhere, with, however, fog locally. Dull rainy weather setting in on our extreme western coasts later. *Temperature* fallen generally; readings ranging from 59° at Jersey to 42° at Stornoway. *Wind* Southerly in the north-west of Ireland, but chiefly Northerly (varying between North-West and North-East) elsewhere; light or moderate in force generally. Subsequently backing to the Southward on all our western and northern coasts, and increasing to strong breeze or gale. *Sea* slight or smooth at first, but afterwards rising in west. *Barometer* rising in most places. Large area of high pressure lying over our Islands and the west of France, with shallow depression over the Skager Rack. Brisk fall taking place on our western and northern coasts later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**



Weather

During the 24 hours succeeding 8 a.m. on the dates given.

Saturday, September 19.

Weather dull and rainy in our Islands, but fine at most of the Continental stations. Improvement taking place over United Kingdom later.

Temperature risen several degrees at all but the Continental stations; readings ranging from 59° at Roche's Point, Pembroke, Scilly, and Dungeness, to 51° at Sumburgh Head, York, and Liverpool. Maxima rather low generally.

Wind Westerly in Ireland and the west of Scotland, but South-Westerly or Southerly elsewhere; strong to a gale in force on our western and northern coasts. Subsequently veering to West generally, and gale subsiding.

Sea rough west and north.

Barometer rising on the Continent but falling in our Islands—quickly in the north. Deep depression lying off north-west of Scotland, with highest pressures over France, but relatively high pressure in Sweden. Depression moving north-eastwards later, and rise taking place in west and north.

Sunday, September 20.

Weather dull and rainy in extreme west and north, but fine elsewhere. Rain extending later to all but our south-eastern stations.

Temperature fallen slightly in our Islands; readings ranging from 60° at Valencia to 49° at Stornoway. Maxima over England rather higher than of late.

Wind Southerly in west of Ireland, but South-Westerly or Westerly elsewhere; strong to a gale in the Shetlands. Moderate or fresh Southerly gales on our north-west coasts later.

Sea high at Sumburgh Head and rough at Valencia, moderate to smooth elsewhere.

Barometer falling at our extreme western and the Scandinavian stations, but rising in all other localities. Depression of previous day passing away towards Norway. Subsidiary disturbance appearing over west of Scotland later, occasioning general fall of barometer in our Islands.

Monday, September 21.

Weather rainy in Denmark and the south of Norway, but generally fine elsewhere, with, however, a good deal of cloud locally. Rain falling later in extreme north and north-west.

Temperature fallen a little in west and north; readings ranging from 60° at several of the southern stations to 48° at Nairn and 46° at Parsonstown.

Wind North-Easterly in the south of Norway and South-Westerly in other parts of Scandinavia and Denmark, but generally North-Westerly over our Islands; moderate in force at nearly all stations. Subsequently backing to South-West on our western and northern coasts.

Sea rather rough at Scilly; moderate to smooth elsewhere.

Barometer rising at all but the Scandinavian and Danish stations. Pressure highest over the Bay of Biscay and our south-west coasts, with subsidiary depression of previous day off the south of Norway. Slight fall taking place on our extreme north-west coasts later.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➤ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 149 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	55	40	54·0	43·9	48·7	− 2·1	47	0	6	1·38	+0·56	*	*
	Stornoway	58	35	55·1	43·4	49·0	− 1·5	49	0	7	1·83	+0·83	28	32
	Wick	59	36	56·9	43·4	49·8	− 1·4	55	0	7	0·83	+0·08	*	*
1. SCOTLAND, E.	Nairn	61	38	59·4	44·1	51·4	− 0·7	66	0	6	1·04	+0·29	*	*
	Aberdeen	65	40	61·0	44·3	52·1	0·0	71	0	4	1·02	+0·23	33	38
	Leith	68	40	64·0	47·9	55·6	+ 2·1	95	0	5	0·26	−0·33	*	*
2. ENGLAND, N.E.	Alnwick Castle	66	42	59·9	45·9	52·6	0·0	74	0	5	0·18	?	*	*
	Shields	70	43	61·1	47·4	53·9	+ 0·8	83	0	3	0·17	−0·43	*	*
	Scarborough ℜ	70	49	62·8	51·3	56·8	+ 2·3	104	0	2	0·08	−0·63	*	*
	York	72	41	65·6	46·6	55·6	+ 1·0	95	0	4	0·18	−0·56	41	48
	Spurn Head	69	49	61·4	51·3	56·1	+ 1·3	99	0	3	0·08	?	*	*
3. ENGLAND, E.	Hillington ℜ	77	41	63·3	48·4	55·5	+ 0·9	95	0	5	0·37	−0·28	35	41
	Yarmouth	70	47	61·3	51·9	56·2	0·0	99	0	5	0·80	+0·06	*	*
	Geldeston	73	43	62·4	49·3	55·5	− 0·5	95	0	6	0·92	+0·30	36	42
	Cambridge	78	44	65·6	50·3	57·6	+ 0·3	109	0	5	0·52	−0·02	33	38
	Rothamsted	75	44	63·5	48·1	55·4	− 0·6	94	0	6	0·64	−0·06	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	77	43	68·3	46·0	56·6	+ 1·1	102	0	2	0·17	−0·52	*	*
	Loughborough	75	47	66·9	49·3	57·7	+ 2·8	110	0	4	0·28	−0·47	*	*
	Leicester													
	Cheadle ℜ	69	42	62·9	48·2	55·2	+ 1·2	92	0	3	0·35	?	*	*
	Churchstoke ℜ	69	39	63·6	43·8	53·2	− 1·4	78	0	5	0·30	?	43	50
	Hereford ℜ	72	41	67·3	46·5	56·4	+ 1·1	101	0	3	0·12	−0·68	*	*
	Cirencester	71	41	64·0	48·6	55·9	+ 0·3	97	0	4	0·22	−0·63	35	41
	Oxford	74	46	65·1	52·0	58·2	+ 2·3	113	0	4	0·18	−0·52	35	41
5. ENGLAND, S.	London†	76	41	65·7	51·1	58·1	+ 0·8	113	0	5	0·98	+0·38	27	31
	Marlborough ℜ	71	42	64·6	48·9	56·4	+ 0·4	101	0	5	0·23	−0·67	33	38
	Strathfield Turgiss ℜ	74	41	66·0	48·9	57·0	+ 0·6	105	0	3	0·57	−0·11	*	*
	Dungeness	69	47	63·1	53·7	58·2	+ 1·0	113	0	4	1·45	?	*	*
	Hastings (St. Leonard's)	69	50	63·6	53·5	58·3	+ 1·2	114	0	6	1·52	+0·82	29	34
	Southampton	72	44	65·1	50·9	57·7	+ 1·6	110	0	5	0·54	−0·26	29	34
	Hurst Castle	67	48	64·1	53·7	58·7	+ 1·8	117	0	3	0·49	−0·32	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	58	40	56·1	47·0	51·3	− 1·9	65	0	6	3·03	?	*	*
	Glasgow	60	37	57·6	43·3	50·1	− 3·2	57	0	6	1·21	+0·20	20	23
	Ardrossan	59	39	57·6	46·7	51·9	− 0·9	69	0	5	1·57	+0·62	*	*
	Douglas (Isle of Man)	61	41	59·9	47·5	53·4	+ 0·6	80	0	4	1·38	+0·60	33	38
7. ENGLAND, N.W.	Newton Reigny (Penrith)	62	35	60·0	45·1	52·2	− 0·5	71	0	5	0·54	?	27	31
	Barrow-in-Furness	63	45	59·9	49·6	54·5	− 0·2	88	0	5	0·85	?	*	*
	Stonyhurst	66	42	60·9	45·1	52·6	− 1·2	74	0	4	0·74	−0·52	33	38
	Blackpool ℜ	66	40	60·6	48·2	54·1	− 0·8	85	0	4	0·62	−0·30	37	43
	Manchester	67	45	62·6	47·6	54·7	+ 0·1	89	0	4	0·48	−0·47	*	*
	Liverpool Obsy (Bidston)	68	49	61·3	51·1	55·9	− 0·1	97	0	4	0·55	−0·34	*	*
	Llandudno ℜ	66	48	62·7	51·1	56·6	− 0·3	102	0	3	0·31	−0·57	35	41
	Holyhead	62	49	59·6	51·6	55·2	− 1·5	92	0	4	0·90	−0·01	*	*
8. ENGLAND, S.W.	Llandovery	70	32	66·1	42·3	53·6	− 1·8	81	0	5	1·08	?	*	*
	Pembroke	62	48	60·0	53·3	56·5	+ 2·3	102	0	3	0·51	−0·39	43	50
	Arlington (N. Devon)	65	42	61·7	47·9	54·5	− 0·9	88	0	4	0·96	?	*	*
	Cullompton ℜ	66	41	65·5	47·5	56·1	− 0·5	99	0	4	0·25	?	33	38
	Falmouth	64	48	61·8	50·4	55·8	− 1·6	97	0	5	0·42	−0·82	30	35
	Plymouth	66	43	64·0	49·1	56·1	− 1·6	99	0	4	0·32	−0·39	33	38
	Prawle Point	69	49	64·4	52·1	58·0	+ 3·0	112	0	4	0·29	?	*	*
9. IRELAND, N.	Malin Head	63	45	57·9	48·4	52·9	+ 0·6	76	0	5	0·66	?	*	*
	Londonderry	62	40	59·5	45·4	52·1	− 1·4	71	0	5	0·51	−0·39	*	*
	Mullaghmore	61	45	58·7	49·4	53·8	− 0·8	83	0	3	1·13	?	*	*
	Belmullet	60	42	58·0	49·4	53·2	− 0·5	78	0	6	1·56	?	*	*
	Markree Castle	61	34	58·4	43·1	50·4	− 4·1	59	0	7	1·13	+0·38	14	16
	Brookeborough	61	38	58·3	42·9	50·2	− 4·2	57	0	5	0·66	?	*	*
	Armagh	62	42	59·4	45·6	52·2	− 2·2	71	0	5	0·70	−0·01	21	24
	Donaghadee	64	41	60·1	43·6	53·0	− 1·4	77	0	5	0·82	+0·12	*	*
	Edgeworthstown	62	39	59·6	44·6	51·7	− 3·2	68	0	4	0·89	?	*	*
10. IRELAND, S.	Dublin	66	44	62·1	48·1	54·8	+ 0·1	90	0	4	0·49	−0·11	30	35
	Parsonstown	63	37	60·0	44·0	51·6	− 4·0	67	0	4	0·69	−0·12	21	24
	Kilkenny	64	37	61·4	43·4	52·0	− 3·1	70	0	3	0·89	?	*	*
	Waterford	64	40	61·6	46·4	53·6	− 1·6	81	0	5	0·92	+0·02	*	*
	Roche's Point	62	45	61·1	48·6	54·6	− 0·9	88	0	4	0·92	−0·15	*	*
	Valencia	64	48	61·9	50·9	56·1	0·0	99	0	5	1·14	−0·04	18	21
	Killarney	63	40	61·5	46·3	53·5	− 2·5	81	0	5	0·83	?	*	*
	Foynes											?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	51	61·9	54·1	57·8	− 0·4	111	0	5	0·36	−0·54	*	*
	Jersey (Noirmont)	71	53	62·7	55·1	58·7	− 0·5	117	0	4	1·07	+0·24	32	37

Stations marked ℜ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 39.] *New Series.* WEEK ENDING MONDAY, 28TH SEPTEMBER, 1885. [*Price 4d.* [*Annual subscription, post paid*, £1 1*s.* 2*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 156.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	58	29	51·8	40·6	45·9	4 below.	33	1365	4	536
	1. SCOTLAND, EAST	62	32	55·8	41·5	48·3	3 below.	46	1929	1	566
	2. ENGLAND, N.E.	67	30	55·0	42·1	48·2	4 below.	43	2076	0	455
	3. ENGLAND, EAST	69	31	57·7	40·2	48·5	6 below.	53	2434	5	564
	4. MIDLAND COUNTIES	73	28	57·2	38·0	47·2	6 below.	53	2403*	11	569
	5. ENGLAND, SOUTH	69	30	58·0	40·9	49·1	6 below.	54	2694	3	405
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	59	31	53·9	41·9	47·6	4 below.	40	1886	0	453
	7. ENGLAND, N.W.†	64	30	54·2	41·7	47·7	6 below.	41	2077	1	426
	8. ENGLAND, S.W.	65	25	57·0	41·8	49·0	6 below.	50	2392	1	332
	9. IRELAND, NORTH	60	29	54·3	43·0	48·3	4 below.	44	2074	0	407
	10. IRELAND, SOUTH †	62	30	56·2	41·4	48·4	6 below.	48	2380	1	329
	— CHANNEL ISLANDS	67	44	57·2	49·9	53·4	4 below.	80	2371	0	106

	DISTRICTS. (See p. 156.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	14	5 more.	183	24·0	24	1063	29	29
	1. SCOTLAND, EAST	5	7	1 more.	137	17·0	33	1235	40	34
	2. ENGLAND, N.E.	4	11	4 more.	129	16·3	40	883	48	25
	3. ENGLAND, EAST	4	7	1 more.	127	17·9	42	1304	50	36
	4. MIDLAND COUNTIES	3	4	3 less.	133*	18·5	32	1223	38	34
	5. ENGLAND, SOUTH	3	4	3 less.	122	18·2	34	1313	40	37
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	11	1 less.	151	31·0	38	1156	46	32
	7. ENGLAND, N.W.†	5	7	2 less.	141	21·3	38	1142	46	32
	8. ENGLAND, S.W.	5	11	0 (average).	146	26·7	31	1364	38	38
	9. IRELAND, NORTH	5	9	1 more.	158	24·9	31	1056	37	29
	10. IRELAND, SOUTH †	4	5	4 less.	149	29·8	35	1279	42	36
	— CHANNEL ISLANDS	6	8	1 less.	157	20·1	40	1672	48	47

General Remarks.

Weather has been in a changeable condition generally, and during the greater part of the period it was very cold for the season. Falls of rain or hail have been very prevalent, while in many places (including London) showers of snow have occurred.

Temperature has been unusually low for the time of year, the deficit over the greater part of England and in the south of Ireland amounting to 6°. The maxima, which were registered on the 22nd, varied from 58° to 62° in Scotland and Ireland, and from 64° to 73° in England. During the latter part of the week the maxima at many stations, even as far south as London, did not exceed 50°. The minima were generally recorded towards the end of the period, when the thermometer fell to 25° in "England, S.W." (at Llandovery), and to between 28° and 32° in all other districts except the "Channel Islands", where the lowest reading was 44°.

Rainfall has been less than the mean in the "Channel Islands", "Ireland, S.", "Scotland, W.", and over central, southern, and north-western England, but more in most other places.

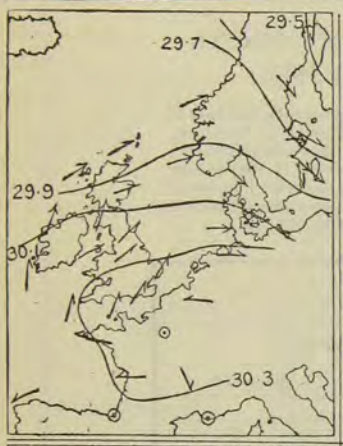
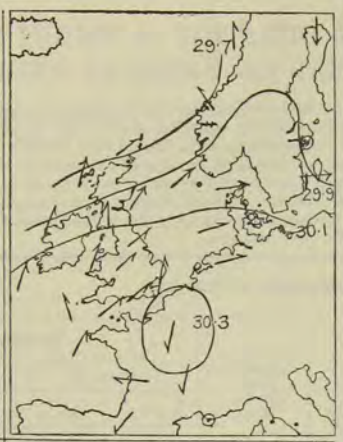
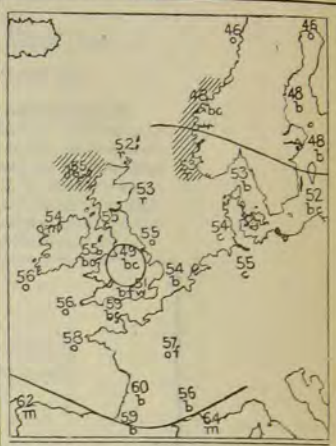
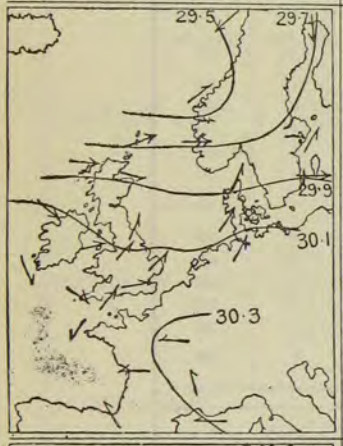
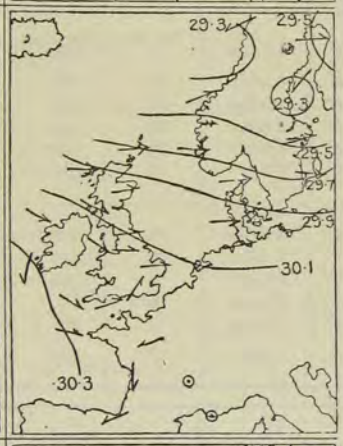
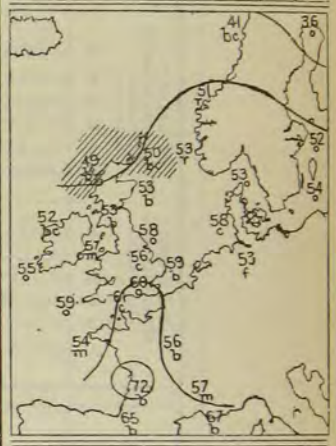
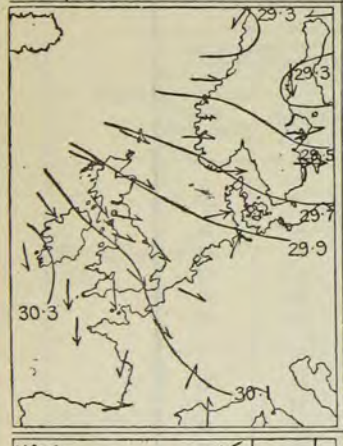
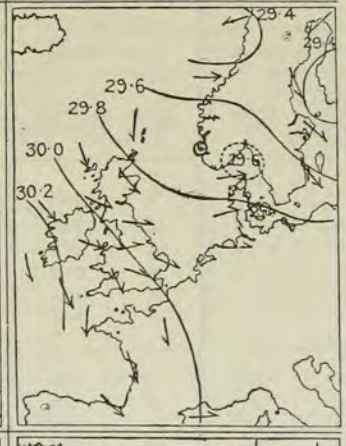
Bright sunshine has been more prevalent in most districts than it was last week, the percentages of the possible duration varying from 29 in "Scotland, N." and 37 in "Ireland, N.", to 50 in "England, E."

Depressions observed.—At the commencement of the period a large depression, far to the northward of Scotland, was moving away north-eastwards, while the barometer was highest over France and our southern coasts. As this disturbance passed away pressure decreased decidedly in the eastern and south-eastern parts of our area, where some shallow depressions were formed, while it increased steadily in the west. The wind, therefore, veered from the South-Westward or Westward to North or North-West on our coasts, and in many places blew strongly, with much colder weather. These conditions continued, with but slight alteration, until the end of the period, when depressions again appeared off our western coasts, and the wind backed to the South-Westward, with rapidly rising temperature.

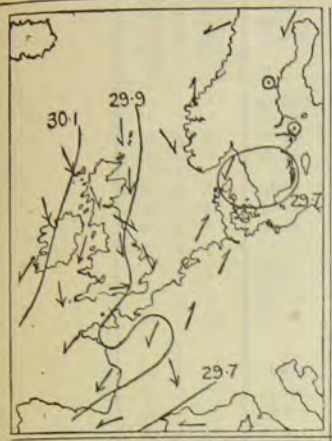
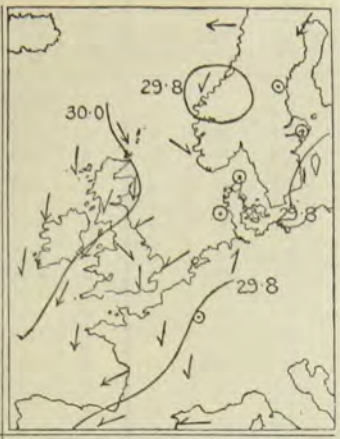
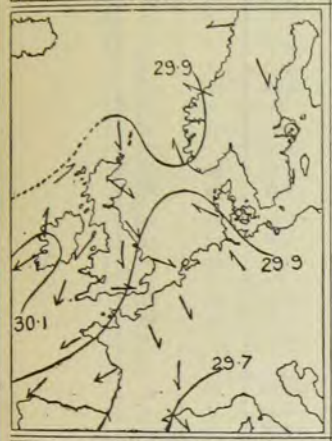
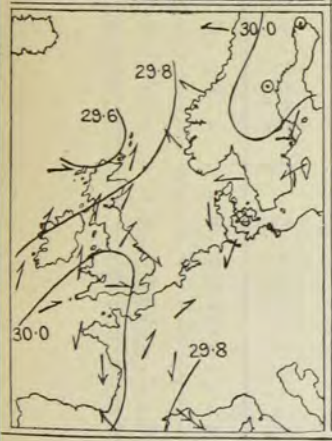
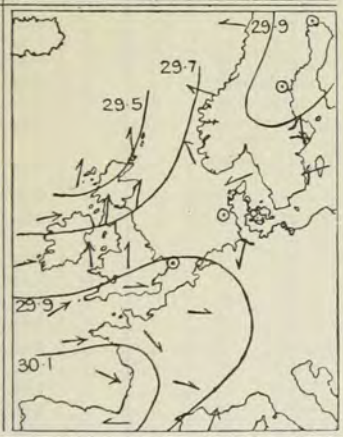
* These values have been altered slightly owing to the receipt of some arrears of observations.
† The accumulated values for these districts are liable to alteration owing to the non-arrival of the Returns from Llandudno and Foynes.

E 19089. 350.—19/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, September 22.** *Weather* dull on our extreme western and northern coasts, but generally fine elsewhere. Rain falling in west and north later. *Temperature* risen over Ireland and Scotland, but fallen in England; readings ranging from 60° at Jersey to 47° at Oxford. Maxima over central England varying between 65° and 69°. *Wind* North-Westerly in Sweden, and Easterly in the west of France, but chiefly South-Westerly elsewhere, moderate in force in most places in morning, but subsequently increasing to strong breeze in west and north. *Sea* rather rough at Stornoway, moderate to smooth elsewhere. *Barometer* rising on all but our extreme western and northern coasts. Anticyclone with readings above 30·3 ins. lying over the Netherlands, the south of England, and north of France; areas of low pressure to the northward of our Islands and over the Gulf of Bothnia. Fall taking place generally later.	
		**Wednesday, September 23.** *Weather* fine in France and also on our northern coasts, but cloudy or overcast elsewhere. Showers falling later in west, south, and extreme north. *Temperature* fallen in north and north-west, but risen in south; readings ranging from 62° at Jersey to 49° at Stornoway. *Wind* South-Westerly over England and the eastern shores of the North Sea, and Westerly in Ireland and Scotland, but still Easterly in the west of France; light or moderate in force generally, but strong in north of Scotland. Subsequently veering to West over England. *Sea* rough off the north of Scotland, moderate to smooth elsewhere. *Barometer* falling at all but our western and northern stations. Anticyclone now lying over east of France, and large depression off the west of Norway, with shallow subsidiary disturbance over the St. George's Channel. Main depression subsequently moving north-eastwards, and subsidiary passing eastwards over south of England.	
		**Thursday, September 24.** *Weather* rainy in the north-west of France, and showery on our own north-west coasts, but fair in most other localities. Rain or hail falling later at most western and northern stations, and lightning occurring in several parts of England. *Temperature* fallen several degrees; readings ranging from 55° at Scilly and Jersey to 45° at Nairn and 44° at Parsonstown. Maxima below 60° in nearly all parts of the Kingdom, and below 55° at most of our western stations. *Wind* Westerly on the eastern shores of the North Sea, but North-Westerly or Northerly elsewhere; fresh in force generally, but strong on our north-west coasts. *Sea* rather rough in the north-west. *Barometer* falling at all but our western and northern stations. Pressure now highest (30·3 ins.) to the south-westward of Ireland, with depression over the northern parts of Scandinavia. Slight fall taking place later on our western and northern coasts.	
		Friday, September 25. *Weather* fair in most places but showers reported locally. Hail and rain showers falling later in all parts of the Kingdom, and snow showers at Wick and in London. Thunder and lightning occurring over south of England in afternoon. *Temperature* again fallen generally; readings ranging from 52° at Scilly to 41° at York. Maxima below 55° in nearly all places and below 50° at some of our northern and north-eastern stations. Frost occurring at inland stations at night. *Wind* Northerly or North-Westerly; moderate in force on all the northern and eastern coasts, but strong in west. *Sea* rather rough on the more exposed parts of our western coasts, moderate and smooth elsewhere. *Barometer* falling at all but our extreme northern stations. Pressure highest off west of Ireland, and lowest over Scandinavia. Subsequent changes slight and irregular.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather during the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, September 26.** *Weather* still changeable and showery, but showers less frequent than on previous day. Lightning seen at Pembroke and Hurst Castle in evening. *Temperature* again fallen at all but our extreme northern stations; readings ranging from 51° at Scilly to 35° at Loughborough. Maxima again below 55° generally, and sharp frost occurring in many places at night. *Wind* variable in Scandinavia, and North-Easterly in France, but Northerly or North-Westerly elsewhere; moderate or fresh in force generally. Subsequently veering to North-East over England. *Sea* rather rough on some parts of our western coasts. *Barometer* rising in Scotland, and also on eastern shores of North Sea, but falling elsewhere. Pressure still highest to the westward of our Islands, with a shallow area of low readings over the south of Sweden. No important change later.	
		**Sunday, September 27.** *Weather* fair in most places, but showers reported locally. Sky subsequently becoming overcast in Ireland and the west of Scotland. *Temperature* risen at several of the English stations, but fallen elsewhere; readings ranging from 51° at Scilly to 36° at Nairn, and 34° at Parsonstown. Maxima below 50° in many parts of England; sharp frost occurring at inland stations at night. *Wind* South-Westerly on our north-west coasts, and North-Westerly in Scotland, but Northerly or North-Easterly at our southern and the French stations; light or moderate in force generally. Subsequently backing to South-West in Scotland. *Sea* rather rough at Spurn Head and Scilly; moderate to smooth elsewhere. *Barometer* falling a little on our extreme western and northern coasts, but rising in most other localities. Pressure highest south of Ireland, with areas of low readings over the west of Norway, the south-east of France, and the north of Spain. Fall in west and north continuing all day.	
		**Monday, September 28.** *Weather* dull in the west and north of our Islands, but generally fine elsewhere. Rain extending from the westward later to nearly all parts of the Kingdom. *Temperature* risen considerably in Ireland and Scotland, but fallen over central England; readings ranging from 56° at Valencia to 34° at Loughborough. Rapid rise taking place over England later. *Wind* moderate from South or South-West in west and north, but light from North-West on our south-east coasts, and fresh from North in the west of France. *Sea* moderate to smooth. *Barometer* falling on our western and northern coasts, but rising elsewhere. An area of relatively high pressure lying over the south of England and west of France, and another over Sweden, with depressions off the north of Scotland and south-east of France. Fall extending to all parts of our Islands later.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 153 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	55	38	50·3	43·3	46·6	− 3·1	32	0	7	1·49	+0·60	*	*
	Stornoway	56	32	51·6	39·9	45·5	− 3·7	33	6	6	1·62	+0·61	24	29
	Wick	58	29	53·4	38·6	45·6	− 4·3	39	10	6	0·95	+0·25	*	*
1. SCOTLAND, E.	Nairn	62	32	55·3	40·0	47·3	− 3·6	46	6	6	0·97	+0·34	*	*
	Aberdeen	60	32	54·7	41·0	47·5	− 3·4	43	3	5	0·89	+0·14	33	40
	Leith	60	34	57·3	43·6	50·1	− 1·7	57	0	3	0·27	−0·31	*	*
2. ENGLAND, N.E.	Alnwick Castle	58	35	51·7	41·6	46·4	− 4·8	32	1	5	1·76	?	*	*
	Shields	63	34	54·9	41·6	47·9	− 3·8	43	1	4	0·94	+0·34	*	*
	Scarborough ⚓	65	38	55·9	44·1	49·7	− 3·6	54	0	5	0·86	+0·15	*	*
	York	67	30	57·4	38·9	47·7	− 5·4	53	9	3	0·56	−0·14	40	48
	Spurn Head	65	40	55·1	44·4	49·5	− 4·0	53	0	4	1·42	?	*	*
3. ENGLAND, E.	Hillington ⚓	68	32	58·3	39·3	48·3	− 4·7	55	8	4	1·05	+0·43	42	50
	Yarmouth	64	33	56·1	42·4	48·9	− 5·9	48	0	5	0·88	+0·15	*	*
	Geldeston	67	32	58·6	40·7	49·2	− 5·5	56	4	5	0·67	+0·07	45	54
	Cambridge	69	31	58·9	39·3	48·6	− 6·9	58	8	3	0·39	−0·14	38	46
	Rothamsted	68	31	56·6	39·1	47·4	− 7·2	50	8	5	0·61	−0·09	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	73	31	60·9	39·3	49·6	− 4·0	65	8	3	0·33	−0·32	*	*
	Loughborough	71	30	57·9	37·7	47·3	− 6·2	55	12	3	0·34	−0·41	*	*
	Leicester	70	32	59·0	38·8	48·4	− 5·0	58	9	4	0·43	−0·27	27	33
	Cheadle ⚓	65	35	54·2	39·0	46·2	− 6·0	42	8	4	0·57	?	*	*
	Churchstoke ⚓	69	29	56·3	36·6	46·0	− 7·1	51	15	3	0·44	?	43	52
	Hereford ⚓	70	28	58·2	35·8	46·5	− 7·1	58	17	2	0·25	−0·53	*	*
	Cirencester	66	34	55·0	38·4	46·3	− 7·7	45	10	3	0·47	−0·36	26	31
	Oxford	67	33	56·4	38·4	47·0	− 7·4	50	10	3	0·53	−0·17	30	36
5. ENGLAND, S.	London†	69	32	57·6	40·4	48·6	− 7·1	53	4	3	0·46	−0·14	29	35
	Marlborough ⚓	66	30	55·9	37·3	46·1	− 7·3	48	13	4	0·57	−0·31	28	34
	Strathfield Turgiss ⚓	67	30	57·7	38·4	47·6	− 7·3	54	10	4	0·42	−0·24	*	*
	Dungeness	65	32	58·9	42·6	50·4	− 5·3	59	0	3	0·27	?	*	*
	Hastings (St. Leonard's)	65	37	57·2	44·3	50·4	− 5·3	59	0	3	0·46	−0·24	45	54
	Southampton	69	33	59·4	41·0	49·8	− 5·2	59	3	3	0·41	−0·39	31	37
	Hurst Castle	66	35	59·4	42·6	50·6	− 5·1	60	0	2	0·35	−0·45	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	58	32	52·8	42·8	47·6	− 4·5	39	0	6	1·68	?	*	*
	Glasgow	57	31	54·1	40·7	47·1	− 4·9	41	4	6	0·60	−0·40	35	42
	Ardrossan	59	32	54·1	42·1	47·8	− 3·9	41	0	5	0·84	−0·12	*	*
	Douglas (Isle of Man)	58	33	54·6	42·0	48·0	− 4·0	42	0	4	1·08	+0·38	41	49
7. ENGLAND, N.W.	Newton Reigny (Penrith)	61	30	51·9	37·3	44·3	− 7·0	36	13	5	0·33	?	32	39
	Barrow-in-Furness	58	38	54·3	44·7	49·3	− 4·3	51	0	5	0·95	?	*	*
	Stonyhurst	60	32	55·5	38·9	46·8	− 5·5	47	9	5	0·82	+0·05	40	48
	Blackpool ⚓	61	31	54·0	40·5	46·9	− 6·8	41	4	4	0·59	−0·35	42	50
	Manchester	64	34	54·5	38·9	46·3	− 6·9	43	9	5	0·68	−0·26	*	*
	Liverpool Obsy (Bidston)	63	39	54·7	43·9	49·0	− 5·7	49	0	5	1·11	+0·26	*	*
	Llandudno ⚓													
	Holyhead	59	43	54·6	47·7	51·0	− 4·5	63	0	5	0·44	−0·45	*	*
8. ENGLAND, S.W.	Llandovery	64	25	56·9	36·7	46·3	− 7·8	52	15	6	1·05	?	*	*
	Pembroke	59	40	54·7	46·7	50·5	− 3·2	60	0	4	0·83	−0·09	32	39
	Arlington (N. Devon)	64	32	55·4	40·6	47·6	− 6·6	45	4	6	2·21	?	*	*
	Cullompton ⚓	65	28	58·2	37·0	47·1	− 8·1	57	14	5	0·54	?	22	27
	Falmouth	63	36	55·8	45·1	50·2	− 6·1	57	0	5	1·14	−0·12	36	43
	Plymouth	64	35	58·5	43·5	50·6	− 5·7	60	0	4	0·58	−0·39	35	42
	Prawle Point	61	36	59·3	43·3	50·9	− 3·2	62	0	4	1·15	?	*	*
9. IRELAND, N.	Malin Head	56	42	52·6	46·4	49·4	− 1·8	52	0	7	0·91	?	*	*
	Londonderry	58	37	55·0	43·0	48·7	− 3·3	47	0	7	1·23	+0·33	*	*
	Mullaghmore	57	43	54·1	46·9	50·2	− 3·0	57	0	6	1·04	?	*	*
	Belmullet	56	40	54·0	46·3	50·0	− 2·7	56	0	7	1·23	?	*	*
	Markree Castle	57	33	54·0	40·8	47·1	− 6·0	41	3	7	1·14	+0·36	24	29
	Brookeborough	59	29	54·5	40·2	47·0	− 5·7	43	5	2	0·72	?	*	*
	Armagh	60	32	55·3	40·8	47·7	− 5·2	45	3	5	0·45	−0·27	37	45
	Donaghadee	59	37	54·4	43·9	48·9	− 3·5	48	0	4	0·65	−0·07	*	*
	Edgeworthstown	58	32	54·4	38·6	46·1	− 7·6	43	10	2	0·35	?	*	*
10. IRELAND, S.	Dublin	62	34	55·2	42·3	48·4	− 4·8	45	0	4	0·25	−0·39	43	52
	Parsonstown	61	30	55·4	38·7	46·6	− 7·4	46	9	3	0·39	−0·42	37	45
	Kilkenny	61	32	55·6	37·9	46·3	− 7·8	47	11	2	0·21	?	*	*
	Waterford	62	35	56·6	39·9	47·7	− 6·4	49	6	3	0·34	−0·58	*	*
	Roche's Point	60	41	57·0	45·0	50·7	− 3·9	61	0	3	0·68	−0·36	*	*
	Valencia	59	37	57·0	45·6	51·0	− 4·2	63	0	6	1·14	−0·06	24	29
	Killarney	62	32	56·4	40·4	48·0	− 6·8	49	4	5	0·68	?	*	*
	Foynes												*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	62	44	56·3	49·9	53·0	− 4·3	77	0	5	0·95	+0·05	*	*
	Jersey (Noirmont)	67	44	58·0	49·9	53·8	− 4·2	83	0	6	0·69	−0·19	40	48

Stations marked ⚓ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 40.] *New Series.* WEEK ENDING MONDAY, 5TH OCTOBER, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 160.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	55	35	51·1	40·9	45·9	3 below.	32	1397	3	539
	1. SCOTLAND, EAST	60	34	54·9	41·8	48·2	2 below.	44	1973	1	567
	2. ENGLAND, N.E.	61	39	55·9	42·4	48·9	2 below.	48	2124	0	455
	3. ENGLAND, EAST	62	36	57·3	43·2	50·1	3 below.	57	2491	0	564
	4. MIDLAND COUNTIES	63	34	56·7	41·7	49·0	3 below.	50	2453	1	570
	5. ENGLAND, SOUTH	65	37	59·0	45·9	52·3	2 below.	72	2766	0	405
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	57	39	53·3	44·0	48·5	2 below.	46	1932	0	453
	7. ENGLAND, N.W.†	60	39	54·6	44·4	49·4	3 below.	52	2129	0	426
	8. ENGLAND, S.W.	64	34	57·0	44·9	50·8	3 below.	62	2454	0	332
	9. IRELAND, NORTH	58	35	53·7	42·3	47·8	4 below.	41	2115	0	407
	10. IRELAND, SOUTH	60	35	55·9	44·3	49·9	3 below.	55	2433 *	0	329
	— CHANNEL ISLANDS	63	47	58·3	50·6	54·3	3 below.	86	2757	0	106

	DISTRICTS. (See p. 160.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	21	12 more.	189	26·1	25	1088	32	29
	1. SCOTLAND, EAST	5	4	2 less.	142	17·4	23	1258	29	34
	2. ENGLAND, N.E.	4	3	4 less.	133	16·6	28	911	35	25
	3. ENGLAND, EAST	5	3	3 less.	132	18·2	23	1327	29	36
	4. MIDLAND COUNTIES	5	6	2 less.	138	19·1	20	1243	25	34
	5. ENGLAND, SOUTH	6	9	1 more.	128	19·1	19	1332	24	36
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	7	26	7 more.	158	33·6	28	1184	36	32
	7. ENGLAND, N.W.†	7	14	4 more.	148	23·0	26	1168	33	32
	8. ENGLAND, S.W.	7	14	3 more.	153	28·1	21	1385	26	38
	9. IRELAND, NORTH	7	16	8 more.	165	26·5	25	1081	31	29
	10. IRELAND, SOUTH	7	14	4 more.	157 *	31·3 *	30	1309	37	36
	— CHANNEL ISLANDS	7	12	3 more.	164	21·3	11	1683	14	46

General Remarks.

Weather has been very changeable and unsettled, with frequent squalls of wind and rain, but occasional intervals of bright sunshine. Lightning has been seen on one or two evenings in various parts of the Kingdom.

Temperature has been 2° or 3° below the mean in all districts, excepting "Ireland, N.", where the deficit has amounted to 4°. The highest maxima were recorded on September 29th or 30th, when the thermometer rose to between 60° and 65° in all districts excepting "Scotland, N.", "Scotland, W.", and "Ireland, N." The lowest minima were recorded either on the first or last day of the period, when the thermometer fell to between 34° and 39° in all districts excepting the "Channel Islands".

Rainfall has been more than the mean in all the "Grazing Districts" as well as in "Scotland, N." and "England, S.", but less elsewhere.

Bright sunshine has been less prevalent than it was last week, the percentages ranging between 24 and 37 in all districts, excepting the "Channel Islands", where the sunshine was equal to only 14% of the possible amount.

Depressions observed.—During the greater part of the week pressure has been highest over France, but on October 1st it was equally high over northern Europe. Numerous depressions have appeared on our western and northern coasts, and have subsequently travelled away towards Scandinavia. The most important of these were: 1. A deep disturbance which skirted our extreme north-west coasts on the 30th September, and occasioned fresh to strong Southerly and South-Westerly gales generally; as this disturbance moved away a strong North-West gale was felt in the north of Scotland. 2. A depression of an angular form which moved in a similar course on the night of October 2nd, and was also attended by gales in most parts of the Kingdom. 3. A large and deep depression which skirted our extreme northern coasts in an Easterly direction on the night of the 4th, producing moderate or fresh South-Westerly gales on all but our east coasts.

* These values have been altered slightly owing to the receipt of some arrears of observations.
† The accumulated values for this district are liable to alteration owing to the non-arrival of the Llandudno Return.

E 19168. 350.—10/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts.

PRESSURE AND WIND.

8 a.m.	6 p.m.

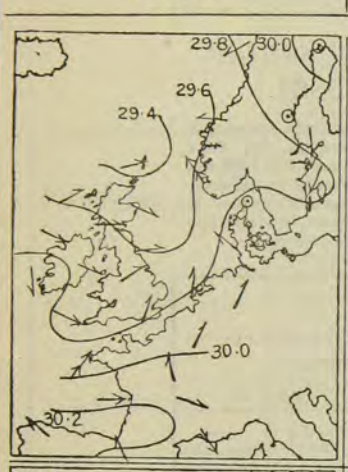
Weather

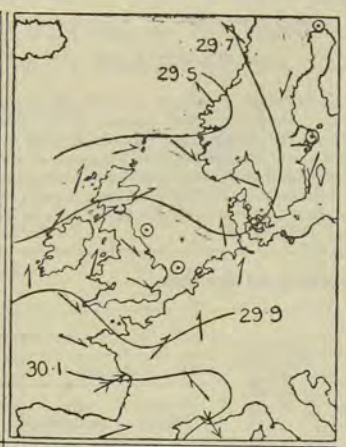
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Tuesday, September 29.

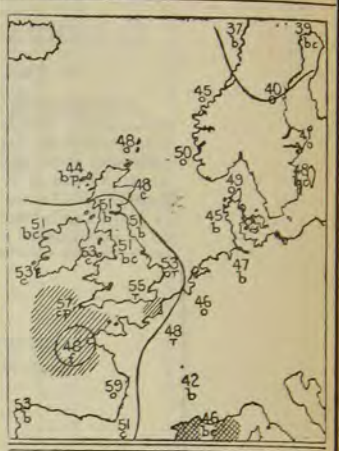
Weather fine at most of the western and northern stations, but cloudy or overcast elsewhere, with rain in the south-east of England and north of France. Dull rainy weather setting in on our extreme western coasts at night.

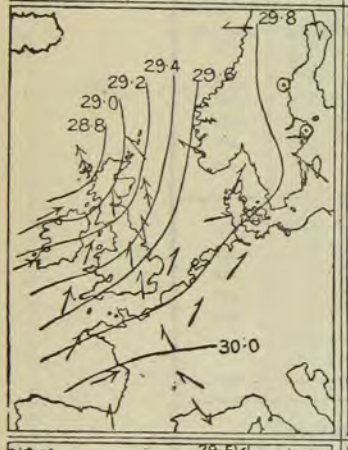
Temperature fallen in Ireland and Scotland, but risen quickly over England and France; readings ranging from 57° at Scilly to 44° at Stornoway.

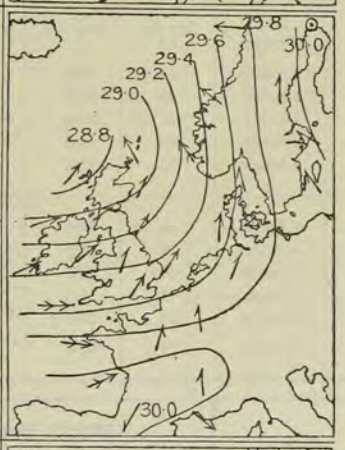
Wind moderate or fresh from West and South-West on our eastern and southern coasts, and strong from the same quarters in the west of France, but North-Westerly in Scotland and Northerly in Ireland. Subsequently backing to the Southward in the west, and increasing in force.

Sea rough in the Channel; moderate to smooth elsewhere.

Barometer falling at all but the Irish and Scotch stations. Pressure highest in south of France, with large depression to the northward of Scotland and shallow subsidiary disturbances in the intermediate districts. Fall taking place in west later.







Wednesday, September 30.

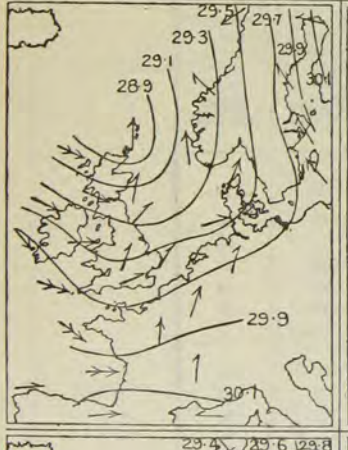
Weather overcast, squally, and rainy over the greater part of our Islands, but fine at many of the Continental stations. Some improvement taking place on our western coasts later.

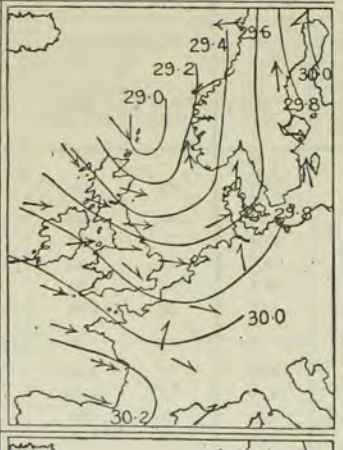
Temperature risen slightly at most stations; readings ranging from 58° at Roche's Point, Scilly, Dungeness, and Jersey to 47° at Nairn. Maxima rather lower than on previous day.

Wind moderate South-Easterly in Norway, but Southerly or South-Westerly elsewhere; strong to a gale in force on all our western and northern coasts. Gales subsiding later, and wind veering to the Westward in west.

Sea rough on all our western and northern coasts.

Barometer falling rapidly in our Islands, but rising at most of the Scandinavian stations. Pressure highest in south of France and relatively high in Sweden, but deep depression lying off the west of Scotland. Depression moving north-eastwards later, and barometer rising on our western coasts.





Thursday, October 1.

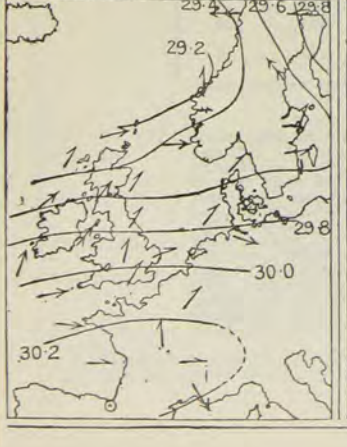
Weather rainy in the extreme north, and showery at several of our western stations, but generally fine elsewhere. Rain falling later on all but our north-east coasts, and lightning seen in east of England at night.

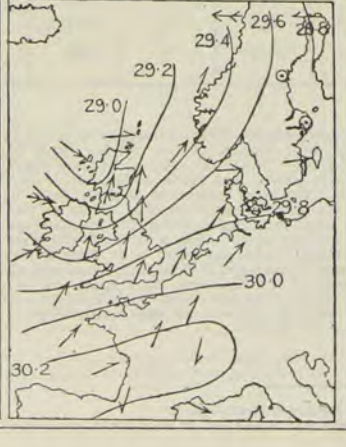
Temperature fallen several degrees over England and Ireland; readings ranging from 52° at Pembroke, Scilly, and Dungeness, to 43° at York.

Wind strong from South in Scandinavia, and moderate from South-West on the east coasts of Great Britain, but gales from between West and North-West reported in the west. Strong North-West gale in north of Scotland later.

Sea rough in the south-west, west, and north.

Barometer rising briskly in our Islands, but falling at most of the Continental stations. Pressure high both over the Gulf of Bothnia and south of France, with a deep depression to the northward of Scotland. Depression moving eastwards later, and barometer continuing to rise in all parts of the Kingdom.





Friday, October 2.

Weather cloudy or overcast generally, with drizzling rain at Stornoway and Wick. Rain falling later in all parts of the Kingdom.

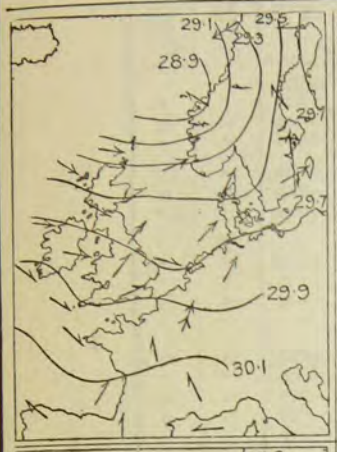
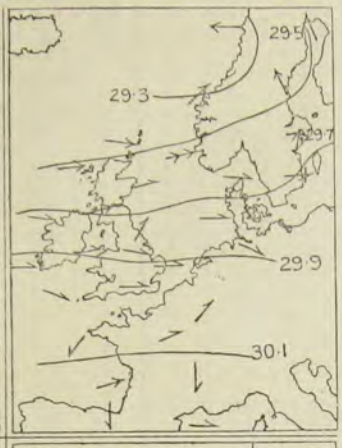
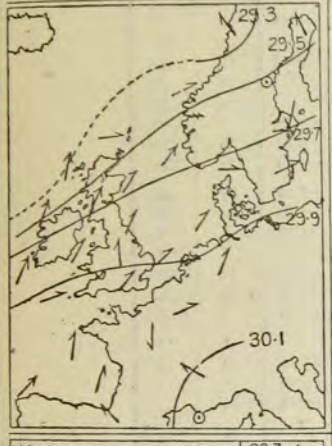
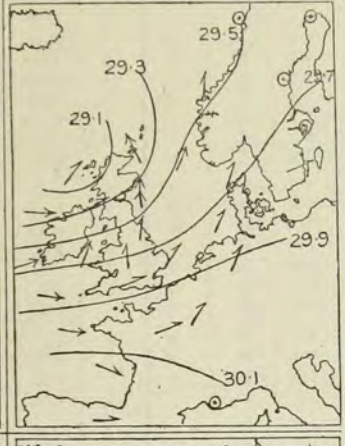
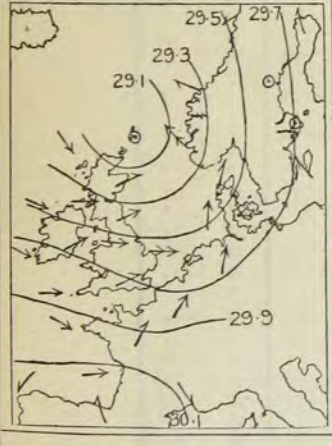
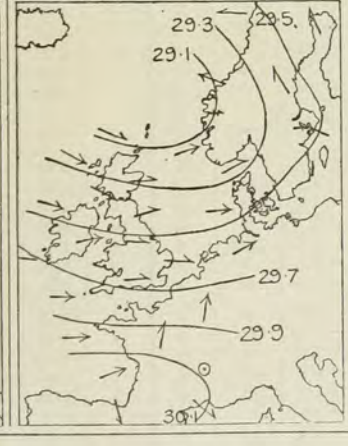
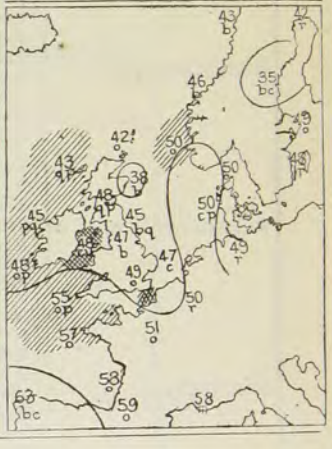
Temperature risen a little in our Islands, but fallen at the Continental stations; readings ranging from 57° at Valencia to 49° at Sumburgh Head and Stornoway.

Wind strong to a gale from East in the north of Scandinavia, but South-Westerly or Westerly elsewhere; moderate in force on our eastern coasts, but strong in the west. Strong Southerly gales in west later.

Sea rough in the west and north-west, moderate to smooth elsewhere.

Barometer falling in Scandinavia and also on our extreme western coasts, but rising in all other localities. Pressure highest (30·3 inches) over France, and depression of previous day moving away in a north-easterly direction. Fresh disturbance subsequently passing along our western coasts, occasioning brisk and general fall of the barometer.

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, October 3.** *Weather* rainy in Denmark and showery in the north of Ireland, but generally fair elsewhere. Showers falling at most of our western stations later. *Temperature* fallen a few degrees; readings ranging from 55° at Scilly and Jersey to 44° at Stornoway and Parsonstown. Maxima below 55° at several of our western and extreme northern stations. *Wind* generally Westerly or South-Westerly; moderate in force on our eastern and southern coasts, but fresh or strong in the west and north. *Sea* rough on our north-western and south-western coasts. *Barometer* rising in the west and north of our Islands, but falling elsewhere. Pressure still highest in France, and depression of previous day passing away towards Norway. Rise extending to all our coasts later.	
		**Sunday, October 4.** *Weather* showery in the north-west of our Islands and dull at the French stations, but fair or fine elsewhere. Rain falling later in most parts of the Kingdom. *Temperature* fallen a little generally; readings ranging from 54° at Scilly to 43° at Aberdeen. *Wind* generally South-Westerly; fresh to strong in force on our extreme west and north-west coasts, but light or moderate elsewhere. Subsequently increasing to gale,—from South in Scotland and from South-West or West over the south of England. *Sea* rather rough on our extreme west and south-west coasts. *Barometer* rising in Scandinavia and Denmark, but falling elsewhere. Pressure highest in south-east of France, with large and rather deep depression to the westward of Scotland. Depression moving eastwards late and barometric fall continuing all day.	
		**Monday, October 5.** *Weather* fine on the east coasts of Great Britain, but cloudy or overcast elsewhere, with showers at several of the western stations. Rain falling later on all but our north-east coasts, and lightning seen in east of England at night. *Temperature* fallen in most places, readings ranging from 57° at Jersey to 38° at Aberdeen. Maxima below 55° in nearly in all parts of the Kingdom. *Wind* fresh or strong from North-West on our north-west coasts, and from West in the south and east, but South-Easterly gale reported in south of Norway. *Sea* rough on most parts of our western and southern coasts. *Barometer* rising over Ireland and Scotland, but falling elsewhere. Pressure highest in north of Spain, and large depression of previous day now lying near the Shetlands. Depression subsequently moving north-eastwards, but barometer continuing to fall in south.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 157 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	53	41	50·7	41·9	46·2	− 2·4	30	0	7	1·43	+0·50	*	*
	Stornoway	53	37	50·9	40·6	45·6	− 2·7	31	4	6	4·11	+3·08	25	32
	Wick	55	35	51·6	40·3	45·8	− 3·0	34	5	6	0·73	+0·07	*	*
1. SCOTLAND, E.	Nairn	58	37	54·6	41·7	48·0	− 1·6	43	1	6	0·16	−0·44	*	*
	Aberdeen	57	34	54·3	40·3	47·1	− 2·5	43	5	4	0·36	−0·35	23	29
	Leith	60	39	55·9	43·4	49·5	− 0·9	53	0	4	0·59	+0·06	*	*
2. ENGLAND, N.E.	Alnwick Castle	56	39	53·6	41·0	47·1	− 2·9	40	3	5	0·23	?	*	*
	Shields	59	40	55·7	42·1	48·7	− 2·1	47	0	2	0·14	−0·44	*	*
	Scarborough ℔	60	40	56·4	43·3	49·7	− 2·2	54	0	4	0·23	−0·47	*	*
	York	61	39	57·6	40·9	49·0	− 2·9	54	3	4	0·43	−0·22	28	35
	Spurn Head	61	40	56·1	44·9	50·2	− 1·9	57	0	5	0·20	?	*	*
3. ENGLAND, E.	Hillington ℔	61	36	56·9	41·3	48·9	− 3·1	51	2	5	0·26	−0·32	23	29
	Yarmouth	61	42	56·3	46·7	51·5	− 2·1	67	0	7	0·27	−0·38	*	*
	Geldeston	61	38	56·7	43·6	50·0	− 3·8	56	0	6	0·23	−0·30	21	26
	Cambridge	62	39	58·6	42·4	50·2	− 3·8	57	0	3	0·16	−0·35	25	31
	Rothamsted	62	38	57·9	42·0	49·7	− 3·6	54	0	5	0·61	−0·07	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	63	38	57·7	41·1	49·2	− 3·2	54	3	3	0·34	−0·36	*	*
	Loughborough	61	34	57·7	40·9	49·1	− 3·2	54	3	5	0·64	−0·06	*	*
	Leicester	62	40	57·9	42·9	50·2	− 2·1	57	0	5	0·29	−0·34	23	29
	Cheadle ℔	57	37	54·2	39·5	46·6	− 4·5	43	7	5	0·90	?	*	*
	Churchstoke ℔	58	39	55·8	41·1	48·2	− 3·8	47	3	7	0·84	?	21	26
	Hereford ℔	61	37	58·2	41·3	49·7	− 2·7	56	1	7	0·57	−0·16	*	*
	Cirencester	58	37	55·3	42·7	48·8	− 4·0	48	0	6	0·53	−0·30	16	20
	Oxford	60	37	56·9	43·9	50·2	− 2·8	57	0	4	0·31	−0·34	20	25
5. ENGLAND, S.	London†	62	40	58·9	45·0	51·7	− 2·5	68	0	6	0·37	−0·23	18	23
	Marlborough ℔	59	41	57·1	44·0	50·4	− 1·9	59	0	7	0·42	−0·39	20	25
	Strathfield Turgiss ℔	62	41	59·0	44·1	51·3	− 2·5	65	0	4	0·46	−0·15	*	*
	Dungeness	62	41	59·4	48·1	53·6	− 0·8	81	0	6	1·13	?	*	*
	Hastings (St. Leonard's)	61	37	58·3	46·0	52·0	− 2·4	70	0	5	1·78	+1·06	18	23
	Southampton	62	40	59·5	46·5	52·8	− 1·0	76	0	5	0·75	−0·04	19	24
	Hurst Castle	65	43	60·9	47·9	54·2	− 0·6	85	0	6	1·01	+0·26	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	54	40	51·7	44·2	47·8	− 3·1	41	0	7	5·57	?	*	*
	Glasgow	55	39	53·0	42·5	47·6	− 2·9	39	0	7	2·04	+1·04	22	28
	Ardrossan	56	42	53·9	45·6	49·6	− 1·0	53	0	7	1·58	+0·60	*	*
	Douglas (Isle of Man)	57	41	54·4	43·8	48·9	− 2·3	48	0	5	1·31	+0·53	34	43
7. ENGLAND, N.W.	Newton Reigny (Penrith)	55	39	52·8	40·5	46·5	− 3·6	38	4	7	1·99	?	25	32
	Barrow-in-Furness	57	43	54·9	46·7	50·7	− 1·7	61	0	7	0·80	?	*	*
	Stonyhurst	58	40	53·7	42·9	48·1	− 3·0	43	0	7	2·47	+1·18	24	30
	Blackpool ℔	57	40	54·9	46·3	50·5	− 2·4	60	0	7	1·28	+0·29	30	38
	Manchester	58	39	54·9	42·2	48·4	− 3·5	45	0	7	1·36	+0·43	*	*
	Liverpool Obsr (Bidston)	60	43	55·6	45·1	50·2	− 3·3	57	0	7	0·82	−0·01	*	*
	Llandudno ℔													
	Holyhead	57	46	55·3	47·3	51·2	− 3·2	64	0	5	0·88	−0·09	*	*
8. ENGLAND, S.W.	Llandovery	60	34	56·9	37·9	46·9	− 6·4	52	11	7	2·00	?	*	*
	Pembroke	57	46	55·6	49·7	52·6	− 0·8	74	0	7	0·85	−0·09	25	31
	Arlington (N. Devon)	58	42	55·0	44·3	49·5	− 3·6	53	0	7	2·31	?	*	*
	Cullompton ℔	64	38	58·2	43·9	50·8	− 3·3	62	0	6	0·89	?	17	21
	Falmouth	60	44	57·1	47·7	52·3	− 3·0	72	0	6	1·15	−0·13	21	26
	Plymouth	62	40	58·1	45·4	51·6	− 3·5	67	0	6	0·94	+0·01	19	24
	Prawle Point	64	39	57·9	45·7	51·6	− 1·9	67	0	7	1·28	?	*	*
9. IRELAND, N.	Malin Head	57	36	53·6	43·3	48·3	− 1·9	44	0	7	1·39	?	*	*
	Londonderry	58	39	53·9	41·5	47·5	− 3·3	41	1	7	1·93	+1·03	*	*
	Mullaghmore	56	44	54·0	46·0	49·9	− 1·9	55	0	7	1·81	?	*	*
	Belmullet	57	44	52·9	45·7	49·2	− 3·0	50	0	7	2·28	?	*	*
	Markree Castle	57	35	53·5	40·2	46·7	− 5·1	40	5	7	1·53	+0·73	21	26
	Brookeborough	57	38	53·0	40·2	46·4	− 4·9	38	5	7	2·36	?	*	*
	Armagh	57	38	54·3	41·1	47·5	− 4·1	42	3	6	1·04	+0·33	28	35
	Donaghadee	58	39	54·6	42·6	48·2	− 3·5	43	0	5	0·93	+0·18	*	*
	Edgeworthstown	57	38	53·6	40·1	46·7	− 5·2	41	5	6	1·29	?	*	*
10. IRELAND, S.	Dublin	59	42	54·9	44·2	49·4	− 2·7	52	0	5	0·53	−0·18	35	44
	Parsonstown	57	40	54·1	43·6	48·6	− 3·7	46	0	7	0·92	+0·12	29	36
	Kilkenny	58	36	55·3	42·4	48·7	− 4·1	47	0	6	0·80	?	*	*
	Waterford	60	40	56·3	44·6	50·3	− 2·8	58	0	6	0·88	−0·09	*	*
	Roche's Point	60	43	56·6	46·6	51·5	− 2·2	67	0	7	1·09	+0·08	*	*
	Valencia	60	44	57·1	47·1	52·0	− 2·6	70	0	7	1·94	+0·64	25	31
	Killarney	60	43	55·7	45·2	50·3	− 3·5	58	0	7	2·62	?	*	*
	Foynes	60	35	56·9	40·4	48·4	− 4·6	52	4	7	2·35	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	59	48	57·9	51·0	54·3	− 2·3	83	0	7	1·05	+0·15	*	*
	Jersey (Noirmont)	63	47	58·7	50·1	54·3	− 2·7	86	0	6	1·34	+0·44	11	14

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 41.] *New Series.* WEEK ENDING MONDAY, 12TH OCTOBER, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 164.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	30	47·9	37·9	42·8	5 below.	23	1420	11	550
	1. SCOTLAND, EAST	58	26	50·9	37·5	44·1	4 below.	34	2007	13	580
	2. ENGLAND, N.E.	56	31	51·0	39·7	45·2	5 below.	32	2153	6	461
	3. ENGLAND, EAST	57	33	52·2	38·7	45·2	6 below.	36	2527	9	573
	4. MIDLAND COUNTIES	61	28	52·3	37·6	44·8	6 below.	38	2491	12	582
	5. ENGLAND, SOUTH	59	30	53·9	40·0	46·7	6 below.	41	2807	6	411
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	54	29	50·5	38·2	44·2	5 below.	31	1963	11	464
	7. ENGLAND, N.W.†	59	26	50·6	40·0	45·1	6 below.	30	2159	6	432
	8. ENGLAND, S.W.	59	30	54·2	41·6	47·7	5 below.	42	2496	1	333
	9. IRELAND, NORTH	55	33	50·4	39·7	44·9	5 below.	30	2145	6	413
	10. IRELAND, SOUTH	58	36	53·0	41·2	46·9	5 below.	38	2471	2	331
	— CHANNEL ISLANDS	59	43	54·5	48·3	51·3	5 below.	65	2822	0	106

	DISTRICTS. (See p. 164.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	9	0 (average).	195	27·0	26	1114	35	29
	1. SCOTLAND, EAST	5	4	2 less.	147	17·8	32	1290	43	34
	2. ENGLAND, N.E.	5	8	2 more.	138	17·4	22	933	29	25
	3. ENGLAND, EAST	5	15	10 more.	137	19·7	23	1350	30	36
	4. MIDLAND COUNTIES	5	12	5 more.	143	20·3	30	1273	39	34
	5. ENGLAND, SOUTH	5	14	7 more.	132 *	20·6 *	25	1357	32	36
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	8	3 less.	163	34·4	33	1217	44	32
	7. ENGLAND, N.W.†	5	12	2 more.	153	24·2	24	1192	31	32
	8. ENGLAND, S.W.	6	15	5 more.	159	29·6	30	1415	37	38
	9. IRELAND, NORTH	6	13	3 more.	171	27·8	31	1112	41	30
	10. IRELAND, SOUTH	6	11	2 more.	163	32·4	35	1344	46	56
	— CHANNEL ISLANDS	6	14	5 more.	170	22·7	24	1707	31	46

General Remarks.

Weather has remained in a very changeable unsettled condition, with frequent and in some places heavy falls of rain. Lightning has been seen in the south and south-west of England at night on several occasions.

Temperature has been considerably below the mean, the deficit being 5° or 6° in all districts excepting "Scotland, E." where it amounted to only 4°. The highest readings were recorded on the 7th or 8th, when the thermometer rose to 61° over the "Midland Counties", and to between 54° and 59° in all other districts excepting "Scotland, N." The lowest readings were observed on the 11th or 12th, when the thermometer fell to 26° in "Scotland, E." and "England, N.W." and to between 28° and 33° in most other districts.

Rainfall has been less than the mean in "Scotland, E." and "Scotland, W.", and about equal to the mean in "Scotland, N.", but more elsewhere. In the "Midland Counties" and "England, S." the excess has been considerable and in "England, E." very considerable.

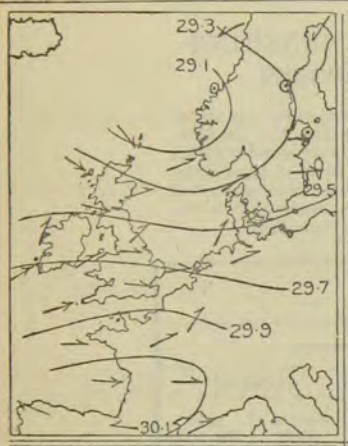
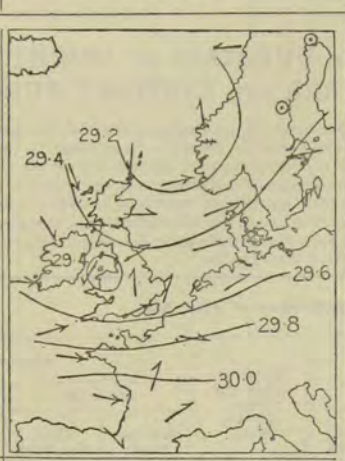
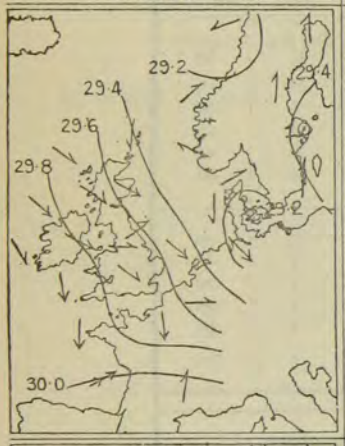
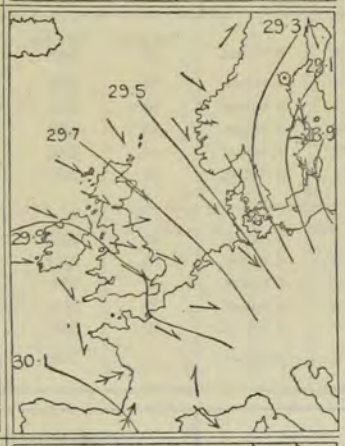
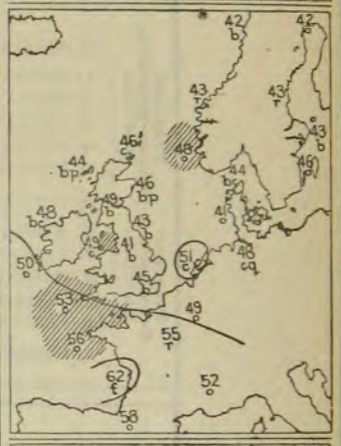
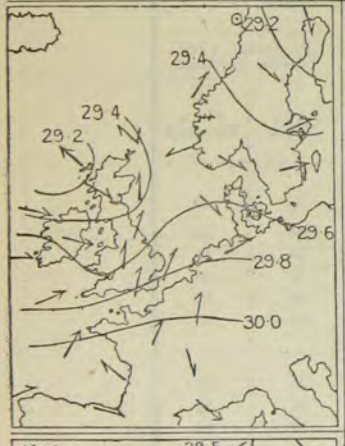
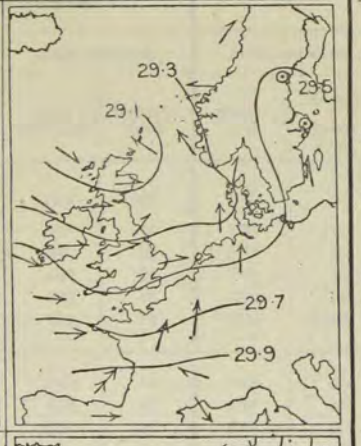
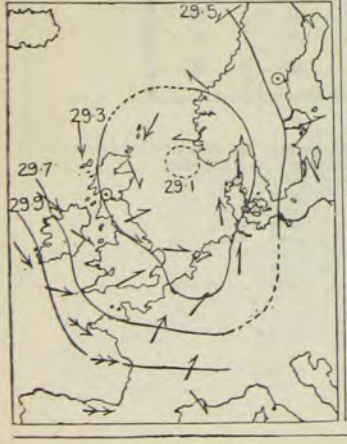
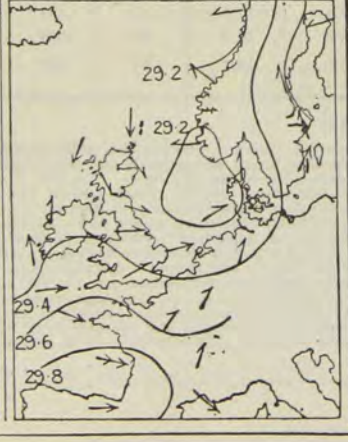
Bright sunshine has been more prevalent than it was last week, the percentages of possible duration varying from 29 in "England, N.E." to 43 in "Scotland, E." and 46 in "Ireland, S."

Depressions observed.—During the earlier part of the week the type of pressure distribution was westerly and three depressions of considerable importance appeared on our coasts. The first, a well defined subsidiary disturbance, passed quickly across Ireland and England on the 6th, occasioning fresh South-Westerly to Westerly gales in the Channel. The second, a primary depression, crossed Scotland on the night of the 8th, and produced further gales from South-West to West generally. The third, a well defined and deep subsidiary system, crossed the south of Ireland on the night of the 9th, advanced eastward along the Channel next day, and finally disappeared over Germany on the 11th. As it came on South-Westerly gales were felt on our south-west coasts, while in its rear the wind shifted to the Northward, and blew strongly in most places. At the close of the week a new depression had advanced from the eastward to Denmark, and strong Northerly gales were reported in Scotland.

* These values have been altered slightly owing to a correction in the Return from Strathfield Turgiss.
† The accumulated values for this district are liable to alteration owing to the non-arrival of the Llandudno Return.

E 19237. 350.—10/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, October 6.** *Weather* fine over Great Britain, but cloudy or overcast elsewhere, with rain in Ireland and Scandinavia. Rain extending later to nearly all parts of the Kingdom. *Temperature* fallen a little at our south-eastern and most of the Continental stations, but little changed elsewhere; readings ranging from 57° at Scilly to 41° at Aberdeen and Donaghadee. *Wind* South-Westerly in Ireland, but Westerly elsewhere; moderate or fresh in force generally. Subsequently blowing fresh Westerly gale in Channel, and veering to North-West on our western and northern coasts. *Sea* rough in the extreme west and south-west. *Barometer* falling in Ireland and also in Scandinavia, but rising elsewhere. Readings highest in south of France, with large depression off the west of Norway. Well-defined subsidiary disturbance subsequently moving across Ireland and England, occasioning general fall of barometer.	
		**Wednesday, October 7.** *Weather* fine over the greater part of our Islands, but cloudy and unsettled at the Continental stations. *Temperature* risen a little on our north and north-west coasts, but fallen elsewhere; readings ranging from 53° at Scilly and Jersey to 41° at York and Parsonstown. *Wind* moderate or fresh from North-West in our Islands, but strong from West or South-West in France. Subsequently backing to the South-Westward on our extreme western coasts. *Sea* rather rough in the western part of the Channel as well as at Liverpool; moderate to smooth elsewhere. *Barometer* rising in our Islands, but falling at the Continental stations; subsidiary disturbance of previous day passing away over the south of Denmark. Fresh fall of barometer taking place in extreme west later.	
		**Thursday, October 8.** *Weather* dull and rainy over Great Britain, but generally fine elsewhere. Some improvement taking place over Great Britain later. Lightning seen on our south-west coasts at night. *Temperature* fallen a little in the north of Scotland, but risen elsewhere; readings ranging from 57° at Scilly, to 42° at Nairn. *Wind* moderate Southerly on our east coasts, but strong Westerly in the west and South-Westerly in the south. Subsequently veering to West in south and blowing fresh gale. *Sea* rough or high in the west, south, and extreme north. *Barometer* falling in all parts of our Islands. Pressure highest over France, with rather deep depression off the west of Scotland, and subsidiary disturbances over the Irish Sea and St. George's Channel. Low pressure systems moving eastwards later, but barometer continuing to fall generally.	
		**Friday, October 9.** *Weather* rainy in France, and showery on our south-west coasts, but generally fine elsewhere. Showers falling later in many parts of the Kingdom, and steady rain setting in over Ireland at night. *Temperature* fallen generally; readings ranging from 54° at Scilly to 40° at York. *Wind* fresh from North in Scotland, and strong from North-West on our western coasts, but moderate Westerly in the east and south-east. Subsequently backing to South or South-East in Ireland. *Sea* rough in the west and south-west. *Barometer* rising over our Islands and also in Sweden, but falling in Denmark, the Netherlands, and France. Depression lying off the south of Norway, and subsidiary disturbances over our southern and south-eastern coasts. Rapid fall setting in over Ireland later, and new depression advancing from Atlantic.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m.	6 p.m.

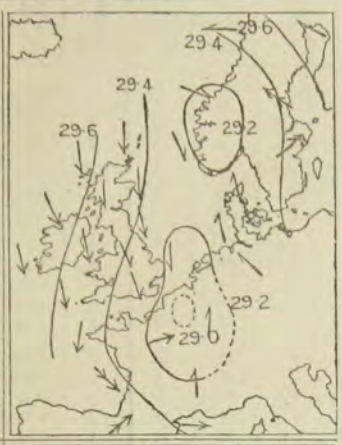
Weather

During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.



Saturday, October 10.

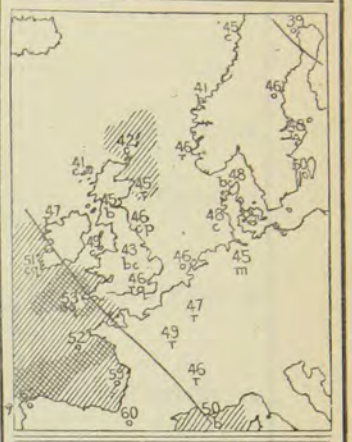
Weather rainy in the south-east of our Islands and north of France, but fair at most of our western and northern stations. Showers falling later in the west and north generally.

Temperature risen a little in the south-east of England, but fallen elsewhere; readings ranging from 53° at Scilly to 41° at Stornoway and Loughborough.

Wind Northerly or North-Easterly in our Islands, but North-Westerly or Westerly over the Bay of Biscay and South-Westerly over Denmark, the Netherlands, and the east of France. Strong in force in many places, with severe gales over the Bay of Biscay.

Sea high at the mouth of the Channel and rough on our south-west and north-east coasts generally.

Barometer rising on our western and northern coasts, but falling elsewhere. Depression still lying off the south of Norway and deep subsidiary disturbance (in which readings were as low as 28·8 ins.) off the Dorsetshire coasts. Latter system subsequently travelling eastwards and barometer rising generally.



Sunday, October 11.

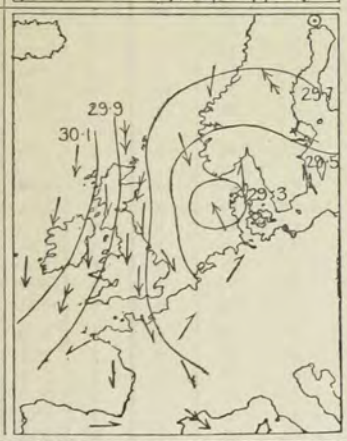
Weather rainy in the south-east of England and north-east of France, but fair at most of our western and northern stations. Showers falling later in the north and north-west and lightning seen in south of England at night.

Temperature fallen generally—most in Scotland; readings ranging from 49° at Scilly to 30° at Nairn. Sharp frost over England at night.

Wind light or moderate from north-west on our northern coasts, but strong Northerly in the south. Wind in South moderating later, but some increase of force taking place on our western coasts.

Sea rough in the east and south.

Barometer rising generally. Deep depression of previous day passing away over Germany and area of relatively high pressure appearing over Ireland. Slight fall in extreme north-west later.



Monday, October 12.

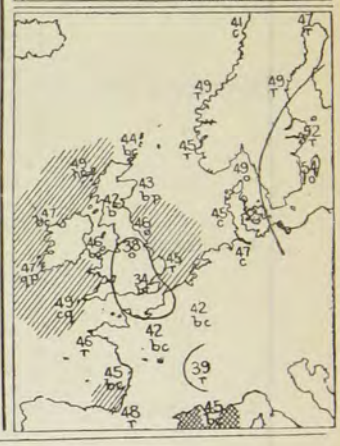
Weather rainy in Scandinavia, and showery on our western and northern coasts, but fair in most other localities. Showers falling later in nearly all parts of the United Kingdom, and lightning seen at night in the south-west.

Temperature fallen several degrees over England; readngs ranging from 49° at Scilly and Jersey to 31° at Dungeness.

Wind South-Easterly in Sweden, but Northerly or North-Westerly over our Islands and France; strong in force on our western coasts, but moderate or fresh elsewhere. Subsequently increasing to strong gale from the northward in Scotland.

Sea rough or rather rough on all but our southern coasts.

Barometer rising at all but the Scandinavian and Danish stations. Pressure highest to the westward of our Islands, with small but well defined depression over the north of Denmark. Depression subsequently moving south-eastwards, but barometer continuing to rise in our Islands.



Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 161 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	51	32	47·9	38·0	42·8	− 4·9	22	11	6	1·01	+0·03	*	*
	Stornoway	50	32	48·1	38·3	43·1	− 4·1	23	10	7	0·96	−0·11	26	35
	Wick	50	30	47·7	37·3	42·4	− 5·1	23	13	6	0·72	+0·05	*	*
1. SCOTLAND, E.	Nairn	52	26	48·9	36·6	42·6	− 5·7	27	15	6	0·33	−0·25	*	*
	Aberdeen	53	33	51·0	37·3	44·0	− 4·0	34	13	6	0·67	−0·03	32	43
	Leith	58	33	52·9	38·7	45·6	− 3·3	39	9	3	0·12	−0·35	*	*
2. ENGLAND, N.E.	Alnwick Castle	52	36	48·7	39·7	44·1	− 4·5	24	6	4	0·83	?	*	*
	Shields	55	36	51·4	39·7	45·4	− 4·1	33	6	6	1·16	+0·59	*	*
	Scarborough ℔	56	38	51·7	40·0	45·7	− 4·3	34	6	6	0·81	+0·15	*	*
	York	55	31	52·4	36·9	44·4	− 6·1	38	14	6	0·64	+0·03	22	29
	Spurn Head	53	40	50·7	42·3	46·4	− 4·2	31	0	5	0·62	?	*	*
3. ENGLAND, E.	Hillington ℔	55	33	52·0	37·5	44·5	− 6·1	36	13	7	1·55	+1·00	21	28
	Yarmouth	53	38	50·9	40·3	45·4	− 6·7	31	5	5	1·74	+1·16	*	*
	Geldeston	55	35	52·0	38·9	45·3	− 6·8	36	9	5	1·44	+0·92	23	30
	Cambridge	57	33	53·9	38·3	45·9	− 6·3	43	10	4	1·39	+0·90	25	33
	Rothamsted	55	33	52·0	38·6	45·1	− 6·3	36	10	6	1·57	+0·92	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	55	32	52·3	37·1	44·5	− 6·2	38	14	5	0·69	+0·02	*	*
	Loughborough	58	32	53·1	38·9	45·8	− 4·8	40	9	5	1·37	+0·70	*	*
	Leicester	57	30	53·4	38·1	45·5	− 5·1	41	11	5	1·21	+0·59	25	33
	Cheadle ℔	55	31	50·3	36·6	43·3	− 6·3	32	15	5	1·40	?	*	*
	Churchstoke ℔	55	28	51·4	36·3	43·6	− 6·8	35	16	6	1·88	?	33	43
	Hereford ℔	58	28	53·4	37·0	45·0	− 6·0	42	14	4	0·88	+0·16	*	*
	Cirencester	55	32	51·6	37·0	44·1	− 7·1	36	14	5	0·96	+0·18	33	43
	Oxford	61	34	53·1	40·1	46·4	− 5·1	39	5	4	1·00	+0·39	28	37
5. ENGLAND, S.	London†	57	30	54·4	40·3	47·1	− 5·5	43	5	4	1·03	+0·42	19	25
	Marlborough ℔	56	30	52·4	36·5	44·2	− 6·8	39	15	5	2·15	+1·37	29	38
	Strathfield Turgiss ℔	57	31	54·1	38·9	46·3	− 5·9	43	9	5	1·43	+0·81	*	*
	Dungeness	58	31	53·3	40·7	46·8	− 6·1	39	4	6	2·09	?	*	*
	Hastings (St. Leonard's)	57	34	53·1	40·6	46·7	− 6·1	39	4	5	1·40	+0·65	25	32
	Southampton	59	33	55·3	40·2	47·5	− 5·2	46	5	5	1·06	+0·29	26	34
	Hurst Castle	58	35	54·6	42·9	48·6	− 4·6	46	0	6	0·94	+0·21	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	50	29	48·7	37·8	43·1	− 6·6	25	12	6	1·40	?	*	*
	Glasgow	53	30	50·0	36·5	43·1	− 5·6	31	15	4	0·36	−0·62	30	40
	Ardrossan	53	32	51·9	39·6	45·6	− 3·8	35	7	5	0·61	−0·39	*	*
	Douglas (Isle of Man)	54	31	51·3	38·8	44·9	− 5·6	34	9	4	0·91	+0·09	36	47
7. ENGLAND, N.W.	Newton Reigny (Penrith)	52	26	48·4	35·5	41·8	− 6·9	18	26	6	0·72	?	20	26
	Barrow-in-Furness	54	34	51·7	41·6	46·5	− 4·7	33	1	5	1·12	?	*	*
	Stonyhurst	52	33	49·6	38·0	43·6	− 6·0	28	11	5	1·20	−0·08	25	33
	Blackpool ℔	53	30	51·0	40·1	45·4	− 6·3	32	5	6	1·20	+0·20	26	34
	Manchester	53	31	50·1	37·9	43·8	− 6·7	30	11	5	1·20	+0·29	*	*
	Liverpool Obsy (Bidston)	54	35	50·4	41·4	45·8	− 6·3	29	2	6	1·51	+0·69	*	*
	Llandudno ℔													
	Holyhead	59	41	52·7	45·3	48·9	− 6·1	48	0	5	1·35	+0·31	*	*
8. ENGLAND, S.W.	Llandovery	58	30	54·0	35·1	44·3	− 7·8	45	19	6	2·36	?	*	*
	Pembroke	56	40	53·3	45·1	49·1	− 4·0	50	0	7	1·21	+0·26	33	36
	Arlington (N. Devon)	55	38	52·3	40·9	46·4	− 5·5	35	3	6	2·14	?	*	*
	Cullompton ℔	58	34	54·8	39·6	47·0	− 5·6	45	7	6	1·27	?	29	38
	Falmouth	58	40	54·1	44·7	49·3	− 4·8	51	0	7	1·98	+0·70	26	34
	Plymouth	58	39	55·3	43·4	49·2	− 4·5	50	0	7	0·99	+0·11	31	40
	Prawle Point	59	37	55·4	42·6	48·8	− 4·1	48	0	5	0·76	?	*	*
9. IRELAND, N.	Malin Head	52	40	49·7	42·0	45·7	− 3·7	26	0	7	0·96	?	*	*
	Londonderry	54	37	50·8	38·9	44·7	− 4·9	32	9	7	1·21	+0·29	*	*
	Mullaghmore	54	42	51·0	44·0	47·4	− 2·6	38	0	7	1·52	?	*	*
	Belmullet	53	42	50·4	43·7	47·0	− 4·4	35	0	7	1·98	?	*	*
	Markree Castle	52	38	49·9	39·5	44·5	− 5·3	28	7	7	1·94	+1·09	29	38
	Brookeborough	54	33	50·1	35·8	42·7	− 6·7	31	17	6	1·30	?	*	*
	Armagh	55	34	50·5	36·6	43·3	− 6·5	32	15	6	0·82	+0·10	33	43
	Donaghadee	55	37	50·7	39·1	44·7	− 6·1	31	8	5	0·57	−0·21	*	*
	Edgeworthstown	53	35	50·3	38·0	44·0	− 5·8	31	11	5	0·95	?	*	*
10. IRELAND, S.	Dublin	54	36	50·8	39·8	45·1	− 5·8	31	6	5	1·43	+0·64	40	53
	Parsonstown	54	36	52·3	38·4	45·1	− 5·4	37	10	6	1·46	+0·67	35	46
	Kilkenny	56	36	52·4	38·7	45·4	− 5·6	38	9	6	1·02	?	*	*
	Waterford	58	39	54·2	39·2	46·5	− 5·6	43	8	4	1·12	+0·14	*	*
	Roche's Point	58	43	54·9	44·4	49·5	− 3·2	53	0	5	0·49	−0·50	*	*
	Valencia	53	43	55·0	46·0	50·4	− 3·2	59	0	7	1·55	+0·18	29	38
	Killarney	56	37	52·9	42·6	47·6	− 4·6	39	0	7	0·96	?	*	*
	Foynes	55	38	51·4	40·4	45·7	− 5·7	33	4	7	1·10	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	58	46	54·6	48·6	51·5	− 4·2	67	0	6	1·07	+0·14	*	*
	Jersey (Noirmont)	59	43	54·4	48·0	51·1	− 4·7	64	0	6	1·81	+0·87	24	31

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 42.] *New Series.* WEEK ENDING MONDAY, 19TH OCTOBER, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 168.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	55	35	48·1	40·0	43·9	2 below.	22	1442	6	556
	1. SCOTLAND, EAST	54	36	49·5	41·5	45·4	2 below.	26	2033	1	581
	2. ENGLAND, N.E.	55	37	50·2	43·6	46·8	1 below.	34	2190	0	461
	3. ENGLAND, EAST	63	35	51·6	40·4	45·8	4 below.	33	2560	4	577
	4. MIDLAND COUNTIES	64	28	51·7	39·9	45·6	3 below.	34	2525	6	588
	5. ENGLAND, SOUTH	61	31	53·4	41·1	47·1	4 below.	39	2846	3	414
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	55	33	51·4	42·0	46·5	2 below.	32	1995	0	464
	7. ENGLAND, N.W.*	56	34	50·8	42·4	46·5	3 below.	32	2191	0	432
	8. ENGLAND, S.W.	61	29	53·7	41·1	47·2	5 below.	40	2536	3	336
	9. IRELAND, NORTH	57	32	51·6	42·9	47·1	1 below.	36	2181	0	413
	10. IRELAND, SOUTH *	59	34	52·5	40·5	46·3	4 below.	36	2507	4	335
	— CHANNEL ISLANDS	58	42	53·7	46·2	49·8	5 below.	55	2877	0	106

	DISTRICTS. (See p. 168.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	4	5 less.	200	27·4	22	1136	31	29
	1. SCOTLAND, EAST	4	3	3 less.	151	18·1	13	1303	18	34
	2. ENGLAND, N.E.	6	10	4 more.	144	18·4	5	938	7	24
	3. ENGLAND, EAST	6	12	6 more.	143	20·9	16	1366	22	36
	4. MIDLAND COUNTIES	4	5	1 less.	147	20·8	18	1291	25	34
	5. ENGLAND, SOUTH	4	4	3 less.	136	21·0	24	1381	32	36
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	2	1	9 less.	165	34·5	15	1232	20	32
	7. ENGLAND, N.W.*	3	2	8 less.	156	24·4	7	1199	10	31
	8. ENGLAND, S.W.	3	5	6 less.	162	30·1	30	1445	41	38
	9. IRELAND, NORTH	3	2	7 less.	174	28·0	12	1124	17	29
	10. IRELAND, SOUTH *	2	2	8 less.	165	32·6	18	1362	24	36
	— CHANNEL ISLANDS	5	7	2 less.	175	23·4	42	1749	57	46

General Remarks.

Weather has been cloudy or dull generally. Some heavy falls of rain were experienced over the east of England, but much smaller quantities in other parts of the Kingdom.

Temperature has continued below the mean in all districts, the deficit varying from 1° in "England, N.E." and "Ireland, N." and 2° in Scotland, to 4° over eastern and southern England and in the south of Ireland, and to 5° in "England, S.W." and the "Channel Islands." The maxima, which were recorded either on the 16th or 17th, ranged from 54° or 55° in Scotland and the north-east of England, to 64° in the "Midland Counties". The minima, which in some places were registered on the 13th and in others on the 17th, varied between 28° in the "Midland Counties" and 29° in "England, S.W.", to 37° in "England, N.E." and 42° in the "Channel Islands".

Rainfall has been more than the mean in "England, N.E." and "England, E.", but less elsewhere.

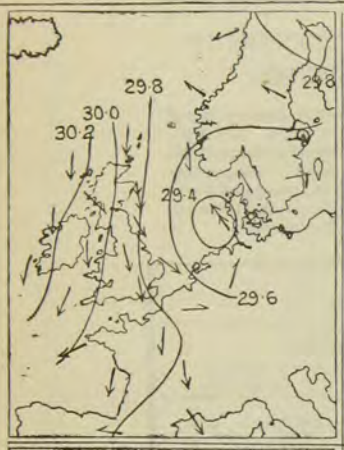
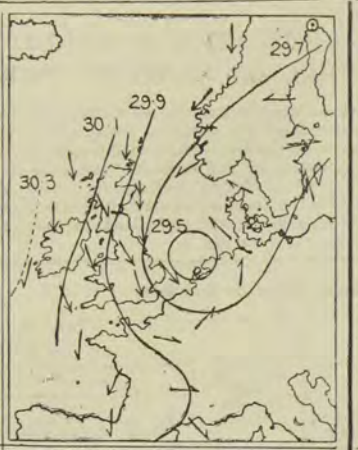
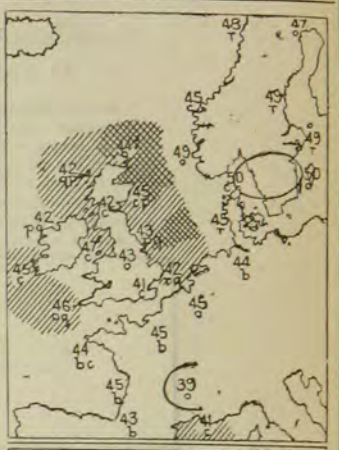
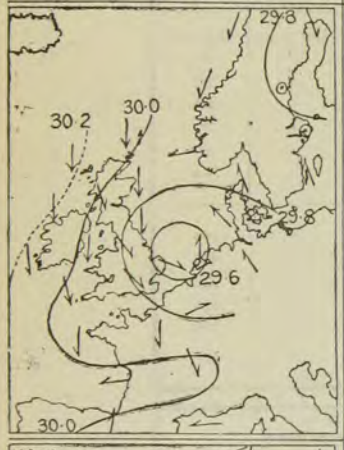
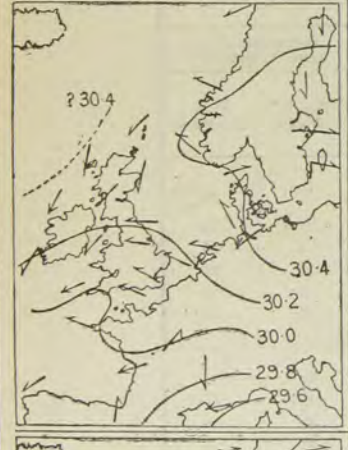
Bright sunshine has been more prevalent than it was last week in the "Channel Islands" and "England, S.W.", but less so in other districts. The percentages of the possible duration ranged from 7 in "England, N.E." and 10 in "England, N.W.", to 32 in "England, S.", 41 in "England, S.W.", and 57 in the "Channel Islands".

Depressions observed.—At the commencement of the period a well-defined depression was moving in a south-westerly direction from Denmark to our south-east coasts, causing strong Northerly winds or gales over Scotland and the east of England, and fresh or strong breezes from the same quarter in other parts of the country. By the morning of the 15th, this depression had entirely filled up and the wind had veered to the North-Eastward. The next disturbance which appeared in our neighbourhood travelled north-westwards across France during the night of the 15th-16th, bringing strong North-Easterly and Easterly winds or gales to all our more southern stations. As the week drew towards its close the distribution of pressure became more complex, the mercury finally becoming highest in the west and lowest over Scandinavia and in the south of France.

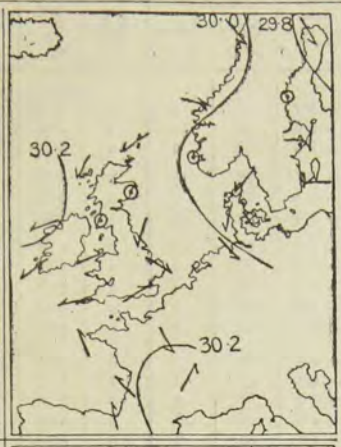
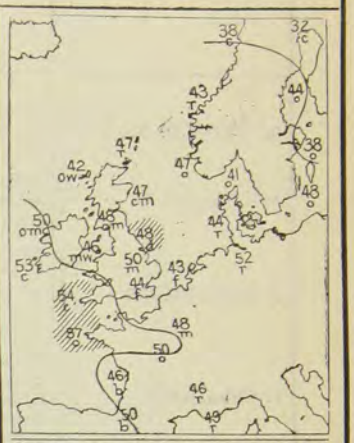
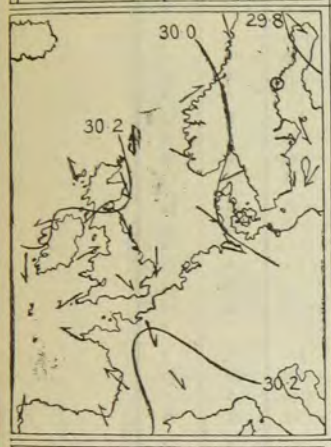
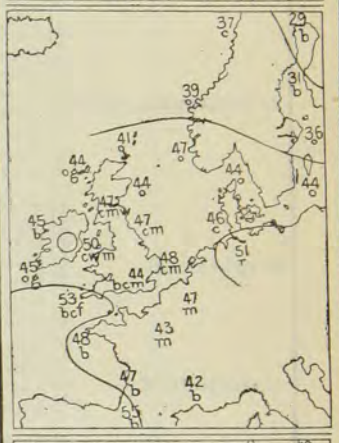
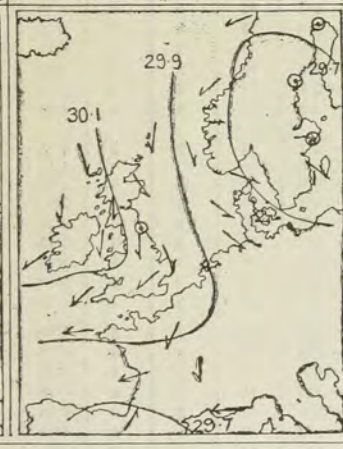
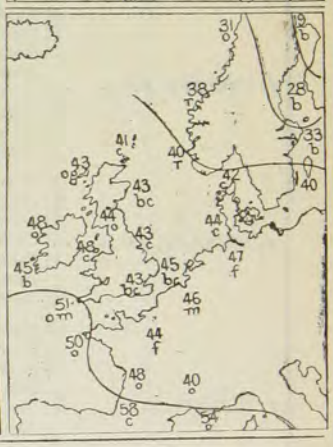
* The accumulated values in these districts are liable to alteration owing to the non-arrival of the Returns from Llandudno and Foynes.

B 19324. 850.—19/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, October 13.** *Weather* fair at most of our southern stations, but showery in the north. Steady rain falling later in the east and south-east of England. *Temperature* risen a little in our Islands, but fallen at many of the Continental stations; readings ranging from 46° at Scilly and Jersey to 38° at Dungeness and 37° at Parsonstown. Maxima below 50° in most places. *Wind* Northerly or North-Westerly in our Islands and France, but South-Easterly in Denmark and Easterly in Scandinavia; strong to a gale in force on our north and north-east coasts. *Sea* high off our north and north-east coasts and rough in the west. *Barometer* rising generally. Pressure highest to the westward of our Islands, with a well-defined and rather deep depression off the west coast of Denmark. Depression moving in a south-westerly direction later, and barometer falling slightly in most parts of our Islands.	
		**Wednesday, October 14.** *Weather* fair at some of our western stations, but cloudy or overcast elsewhere, with rain in many places. Showers falling in west later. *Temperature* risen a little in most places; readings ranging from 49° at Scilly to 41° at Loughborough, Parsonstown, and in London. Maxima below 50° in many places. *Wind* strong Northerly on our western and Northern coasts, but moderate North-Westerly in the south-east of England, South-Westerly in Belgium, and South-Easterly in Denmark. Northerly winds subsequently moderating a little. *Sea* rough on our north and east coasts, and rather rough in the west. *Barometer* falling in England and Ireland, but rising elsewhere. Pressure still highest to the westward of our Islands, with depression of previous day lying off the east of England. General rise taking place later, and disturbance filling up.	
		**Thursday, October 15.** *Weather* rainy in the south-east of France as well as at some of the Scotch stations, but fair or fine elsewhere. Rain falling in south of England at night. *Temperature* risen a little in our Islands, but fallen at most of the Continental stations; readings ranging from 52° at Holyhead to 43° at Stornoway and 42° at Parsonstown. *Wind* South-Easterly in the east and south-east of England, but chiefly North-Easterly elsewhere; moderate or fresh in force. Subsequently backing to North-East at our south-eastern stations, and blowing moderate to fresh gale. *Sea* rather rough off the north-east of England and also at Scilly, moderate to smooth elsewhere. *Barometer* rising at all but the southern French stations. Area of high pressure (with readings above 30·4 ins.) lying over Sweden and the Baltic, with depression over the Gulf of Genoa. Depression subsequently moving northwards, and barometer falling on our south-east coasts.	
		Friday, October 16. *Weather* rainy at some of the English stations as well as in the west of France, but fair or fine elsewhere. *Temperature* risen a little in most places; readings ranging from 55° at Dungeness to 42° at Stornoway. *Wind* South-Easterly at our southern and the French stations, but Easterly or North-Easterly elsewhere; strong to a gale in force on our west and south-west coasts. *Sea* rough on our south-west coasts, rather rough in the east and north-west, moderate to smooth in the south-east. *Barometer* falling at all our western and southern stations, as well as in the north of Norway, but rising elsewhere. Band of high pressure extending from the southern parts of Scandinavia to our extreme northern coasts, and deep depression lying near the mouth of the English Channel. Depression subsequently moving westwards, and barometer rising in south.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, October 17.** *Weather* fine in the south-west, but cloudy or overcast elsewhere, with fog over central England, and rain in Denmark as well as on our north-east coasts. *Temperature* fallen at all but our south-western stations; readings ranging from 54° at Scilly and Prawle Point to 39° at Nairn and 37° at Oxford. *Wind* moderate Easterly in the south-west, but light North-Westerly in the north and east, with calms and variable airs in the intermediate districts. *Sea* rather rough at Shields and Scilly, moderate to smooth elsewhere. *Barometer* falling at all our more northern and also at the Scandinavian stations, but rising in the south. Areas of high readings lying over France and our northern coasts, with relatively low pressures over Sweden, the Baltic, and the Bay of Biscay.	
		**Sunday, October 18.** *Weather* fair generally, but a good deal of fog or mist reported locally. Showers falling later at some of our northern and eastern stations. *Temperature* fallen in most places; readings ranging from 53° at Scilly to 41° at Sumburgh Head and 39° at Parsonstown. *Wind* fresh South-Easterly in the west of France, but variable or light northerly over our Islands. *Sea* slight or smooth generally. *Barometer* rising a little in most places. Distribution of pressure very similar to that of previous day, but area of high readings over France disappearing gradually.	
		**Monday, October 19.** *Weather* fair but cloudy, with fog or mist locally, and showers at Spurn Head. Showers falling later at most of our northern and eastern stations. *Temperature* fallen a little, readings ranging from 51° at Scilly to 39° at Loughborough. *Wind* light Northerly or North-Westerly on our north and east coasts, but moderate North-Easterly in the south of England, and strong Easterly in the west of France. *Sea* moderate at the mouth of the Channel, slight or smooth elsewhere. *Barometer* falling generally. Pressure highest to the westward of our Islands, with shallow depressions over the north of Norway, the Baltic, and the southern part of the Bay of Biscay. Norwegian disturbance subsequently travelling south-eastwards, but barometer continuing to fall in most places.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 165 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	52	37	47·7	40·4	43·9	− 2·7	20	4	5	0·40	−0·63	*	*
	Stornoway	52	35	48·1	38·4	43·1	− 2·9	23	10	4	0·32	−0·78	22	31
	Wick	55	39	48·4	41·1	44·6	− 1·5	22	3	5	0·50	−0·20	*	*
1. SCOTLAND, E.	Nairn	51	36	48·1	38·7	43·2	− 3·7	22	9	5	0·38	−0·18	*	*
	Aberdeen	54	37	50·1	42·6	46·2	− 0·8	29	0	5	0·42	−0·24	13	18
	Leith	52	39	50·4	43·3	46·8	− 0·5	34	0	1	0·01	−0·44	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	38	48·3	42·7	45·4	− 1·8	24	0	7	1·33	?	*	*
	Shields	53	40	50·1	44·3	47·1	− 0·8	36	0	5	0·95	+0·39	*	*
	Scarborough ℳ	52	41	49·9	45·1	47·4	− 0·6	38	0	6	1·03	+0·38	*	*
	York	55	37	51·3	42·7	46·9	− 2·1	34	0	4	0·36	−0·21	5	7
	Spurn Head	54	38	51·6	43·1	47·2	− 1·7	36	0	7	1·10	?	*	*
3. ENGLAND, E.	Hillington ℳ	63	36	52·3	41·1	46·5	− 2·6	35	3	6	0·91	+0·39	15	21
	Yarmouth	54	40	49·7	42·3	45·9	− 4·5	27	0	7	1·89	+1·31	*	*
	Geldeston	63	39	51·3	41·6	46·3	− 4·4	32	1	6	1·29	+0·79	17	23
	Cambridge	63	35	53·1	38·3	45·5	− 4·8	40	10	4	0·86	+0·37	17	23
	Rothamsted	59	35	51·4	38·9	45·0	− 4·6	34	9	6	0·88	+0·23	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	56	38	51·0	42·7	46·7	− 2·6	33	0	5	0·46	−0·19	*	*
	Loughborough	62	35	52·4	40·4	46·2	− 2·6	36	4	4	0·56	−0·09	*	*
	Leicester	64	37	52·4	40·8	46·4	− 2·4	36	3	4	0·95	+0·35	14	19
	Cheadle ℳ	54	35	49·2	40·3	44·6	− 3·3	25	5	5	0·47	?	*	*
	Churchstoke ℳ	56	28	51·1	37·4	44·2	− 4·5	35	13	4	0·46	?	8	11
	Hereford ℳ	59	31	53·6	38·3	45·7	− 3·6	41	10	3	0·29	−0·41	*	*
	Cirencester	56	34	51·3	39·3	45·1	− 4·4	33	8	4	0·49	−0·26	26	36
	Oxford	58	36	52·4	40·3	46·2	− 3·7	37	5	2	0·49	−0·11	24	33
5. ENGLAND, S.	London†	60	33	52·3	40·6	46·3	− 4·5	36	4	3	0·42	−0·19	14	19
	Marlborough ℳ	60	33	52·7	39·2	45·8	− 3·7	38	8	3	0·56	−0·19	25	34
	Strathfield Turgiss ℳ	57	35	53·5	39·8	46·5	− 4·1	41	6	3	0·34	−0·27	*	*
	Dungeness	59	31	54·3	41·1	47·5	− 3·9	42	3	4	0·29	?	*	*
	Hastings (St. Leonard's)	58	39	52·1	44·4	48·1	− 3·0	43	0	5	0·35	−0·43	25	34
	Southampton	61	36	54·8	41·3	47·9	− 3·4	44	2	3	0·46	−0·29	31	42
	Hurst Castle	58	36	54·1	41·4	47·6	− 4·3	42	2	4	0·54	−0·17	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	55	33	51·7	39·7	45·5	− 2·7	34	6	3	0·05	?	*	*
	Glasgow	54	37	51·2	41·9	46·2	− 0·7	30	0	1	0·02	−0·96	12	17
	Ardrossan	54	38	51·0	42·7	46·7	− 1·2	33	0	1	0·02	−1·00	*	*
	Douglas (Isle of Man)	55	40	51·7	43·8	47·6	− 2·0	39	0	2	0·26	−0·61	17	23
7. ENGLAND, N.W.	Newton Reigny (Penrith)	53	36	50·3	42·6	46·3	− 0·9	30	0	4	0·14	?	4	6
	Barrow-in-Furness	54	38	51·4	42·6	46·9	− 3·0	34	0	1	0·10	?	*	*
	Stonyhurst	55	34	50·8	41·1	45·8	− 2·5	30	3	4	0·17	−1·13	7	10
	Blackpool ℳ	56	36	50·7	41·2	45·8	− 4·5	30	2	3	0·18	−0·86	6	8
	Manchester	53	37	?49·2	?41·4	?45·2	?− 3·8	25	2	3	0·28	−0·62	*	*
	Liverpool Obsy (Bidston)	54	38	50·7	42·4	46·4	− 4·0	31	0	4	0·39	−0·41	*	*
	Llandudno ℳ												10	14
	Holyhead	56	42	52·4	45·6	48·9	− 2·7	48	0	3	0·12	−0·98	*	*
8. ENGLAND, S.W.	Llandovery	61	29	54·9	37·0	45·7	− 5·0	47	14	2	0·18	?	*	*
	Pembroke	57	40	53·0	44·0	48·4	− 4·2	45	0	3	0·70	−0·27	29	40
	Arlington (N. Devon)	56	36	51·4	41·3	46·2	− 4·3	32	2	2	0·30	?	*	*
	Cullompton ℳ	60	32	54·4	38·8	46·4	− 4·4	44	9	3	0·38	?	25	34
	Falmouth	56	41	52·8	44·5	48·5	− 4·4	46	0	5	1·16	−0·14	34	46
	Plymouth	58	35	54·7	40·0	47·2	− 5·2	45	6	4	0·23	−0·61	31	42
	Prawle Point	59	37	54·4	42·4	48·2	− 3·9	43	0	2	0·49	?	*	*
9. IRELAND, N.	Malin Head	54	40	51·6	44·7	48·1	0·0	43	0	2	0·08	?	*	*
	Londonderry	55	38	52·1	42·3	47·1	− 1·0	36	0	3	0·19	−0·73	*	*
	Mullaghmore	54	41	51·1	44·9	47·9	− 0·5	41	0	4	0·14	?	*	*
	Belmullet	57	41	52·1	44·1	47·9	− 2·5	41	0	4	0·13	?	*	*
	Markree Castle	56	36	51·4	40·8	45·9	− 2·1	32	3	5	0·16	−0·74	14	19
	Brookeborough	55	38	51·6	42·0	46·7	− 0·9	33	0	2	0·16	?	*	*
	Armagh	56	32	51·8	41·2	46·2	− 1·8	33	2	3	0·24	−0·46	10	14
	Donaghadee	54	43	51·9	46·1	48·9	− 1·2	48	0	3	0·27	−0·53	*	*
	Edgeworthstown	55	36	50·7	40·4	45·4	− 2·2	31	4	1	0·10	?	*	*
10. IRELAND, S.	Dublin	53	37	50·6	41·0	45·7	− 4·0	30	3	4	0·44	−0·41	11	15
	Parsonstown	56	35	51·1	37·9	44·3	− 4·3	33	11	1	0·09	−0·66	16	22
	Kilkenny	57	35	51·9	39·6	45·6	− 3·3	35	7	1	0·19	?	*	*
	Waterford	58	35	53·0	40·4	46·5	− 4·3	38	4	1	0·34	−0·66	*	*
	Roche's Point	58	40	54·0	42·4	48·0	− 3·4	42	0	4	0·23	−0·74	*	*
	Valencia	59	38	54·4	43·3	48·7	− 3·5	47	0	3	0·09	−1·32	26	36
	Killarney	58	34	52·7	38·9	45·6	− 5·2	38	9	?3	0·06	?	*	*
	Foynes												*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	58	44	53·7	47·3	50·4	− 4·3	59	0	5	1·11	+0·20	*	*
	Jersey (Noirmont)	58	42	53·6	45·1	49·2	− 5·2	50	0	4	0·30	−0·65	42	57

Stations marked ℳ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 43.] *New Series.* WEEK ENDING MONDAY, 26TH OCTOBER, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 172.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	22	45·4	31·9	38·5	5 below.	10	1452	37	593
	1. SCOTLAND, EAST	52	20	46·1	29·9	37·7	5 below.	11	2044	43	624
	2. ENGLAND, N.E.	53	35	47·4	39·8	43·5	3 below.	20	2210	6	467
	3. ENGLAND, EAST	58	34	50·0	39·3	44·5	4 below.	29	2589	8	585
	4. MIDLAND COUNTIES	57	28	48·4	38·6	43·3	4 below.	23	2548	10	598
	5. ENGLAND, SOUTH	58	33	51·3	40·5	45·8	3 below.	33	2879	4	418
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	51	26	46·3	34·8	40·4	6 below.	12	2007	27	491
	7. ENGLAND, N.W.†	53	29	47·1	38·2	42·5	5 below.	19	2210	11	443
	8. ENGLAND, S.W.	58	25	51·3	41·0	46·0	4 below.	32	2568	3	339
	9. IRELAND, NORTH	53	27	48·4	37·5	42·8	4 below.	25	2206	13	426
	10. IRELAND, SOUTH	55	28	50·0	38·2	43·9	5 below.	29	2536	11	346
	— CHANNEL ISLANDS	57	41	53·4	45·9	49·5	4 below.	53	2930	0	106

	DISTRICTS. (See p. 172.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	8	2 less.	205	28·2	28	1164	42	29
	1. SCOTLAND, EAST	3	6	0 (average).	154	18·7	29	1332	43	34
	2. ENGLAND, N.E.	6	19	13 more.	150	20·3	7	945	10	24
	3. ENGLAND, EAST	5	15	9 more.	148	22·4	15	1381	21	36
	4. MIDLAND COUNTIES	6	14	7 more.	153	22·2	10	1301	14	33
	5. ENGLAND, SOUTH	5	12	5 more.	141	22·2	10	1391	14	36
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	3	12	1 more.	168	35·7	18	1250	26	32
	7. ENGLAND, N.W.†	5	14	4 more.	161	25·8	10	1209	15	31
	8. ENGLAND, S.W.	6	20	10 more.	168	32·1	8	1453	11	38
	9. IRELAND, NORTH	4	8	0 (average).	178	28·8	19	1143	27	29
	10. IRELAND, SOUTH	5	13	4 more.	171 *	33·9	14	1376	21	35
	— CHANNEL ISLANDS	7	19	10 more.	182	25·3	11	1760	15	46

General Remarks.

Weather has been moderately fine in the extreme north and east of Scotland, but dull and rainy elsewhere, especially over south-western, southern, and eastern England.

Temperature has continued below the mean, the deficit varying from 3° in "England, N.E." and "England, S.", to as much as 5° or 6° in Scotland, the north-west of England, and the south of Ireland. The maxima, which were generally registered on the 26th, ranged from 49° in "Scotland, N." and 51° in "Scotland, W.", to 58° in "England, E.", "England, S.", and "England, S.W." The minima, which were recorded on different dates in the various districts, were as low as 20° in "Scotland, E.", 22° in "Scotland, N.", and between 25° and 29° in most other districts. In the north-east of England, however, they were no lower than 35°, while in the "Channel Islands" the minimum was 41°.

Rainfall has been less than the mean in "Scotland, N." and about equal to it in "Scotland, E." and "Ireland, N.", but more in all other districts; over the southern and eastern parts of England the fall has been very considerable.

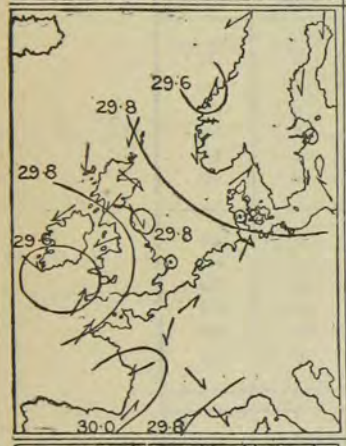
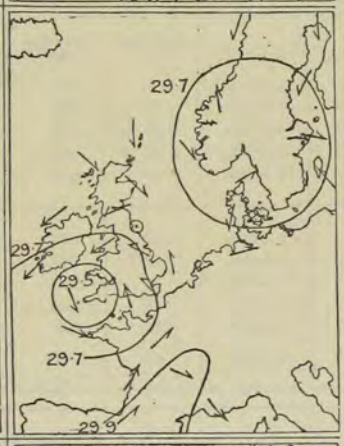
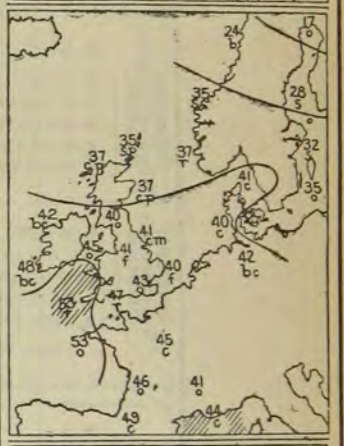
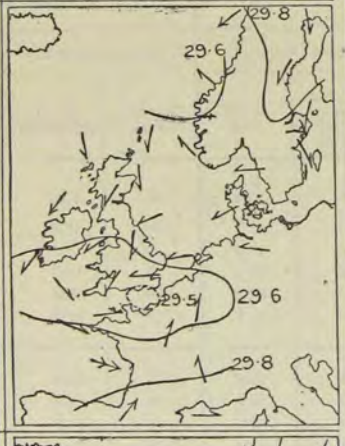
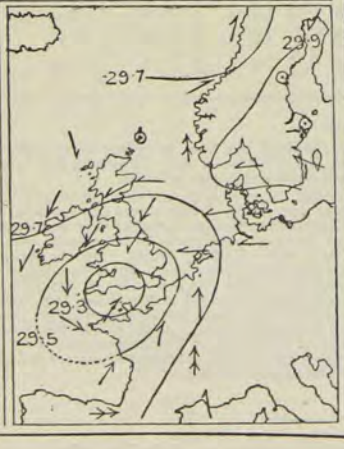
Bright sunshine has been more prevalent than it was last week in "Scotland, N.", "Scotland, E.", "England, N.E.", and "Ireland, N.", but elsewhere a decided decrease is shown.

Depressions observed.—At the commencement of the period the distribution of barometric pressure was anticyclonic, but by 8 A.M. on the 21st a well-defined depression appeared over our south-west coasts, whence it travelled east-south-eastwards to Normandy, causing South-Easterly to Easterly and North-Easterly winds. By the morning of the 23rd this disturbance had entirely dispersed, but a second had reached the mouth of the Channel, and during the remainder of the week travelled northwards, finally disappearing over the south of Sweden. During its passage over our Islands and the North Sea, strong winds or gales from between East and North were experienced. At the end of the period, a third depression was travelling eastwards in the neighbourhood of the Shetlands and the wind on our coasts had shifted to the Westward; at many exposed stations a fresh Westerly gale was felt.

* This value has been altered slightly owing to the receipt of some arrears of observations.
† The accumulated values in this district are liable to alteration owing to the non-arrival of the Llandudno Return.

E 19398. 350.—10/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		Tuesday, October 20. *Weather* cloudy generally, with snow at some of the Scandinavian stations and showers of rain on the east coasts of Great Britain. *Temperature* fallen a little in most places; readings ranging from 50° at Scilly to 37° in the Shetlands. Maxima below 50° at all but our extreme southern stations. *Wind* North-Westerly in the north and east, but North-Easterly in the south and South-Easterly in the west of Ireland; light or moderate in force generally. *Sea* moderate off the east of England; slight or smooth elsewhere. *Barometer* falling in most parts of Western Europe. Pressure highest over Ireland, with area of low readings over the Baltic. Brisk fall taking place in west later, and depression advancing from Atlantic.	
		**Wednesday, October 21.** *Weather* fine over Ireland and the north of England, but cloudy or overcast elsewhere, with rain on our south-west coasts and snow in Sweden. Rain falling later at all the southern stations, and snow or hail showers in the north and east of Scotland. *Temperature* fallen a little in the north, but risen elsewhere; readings ranging from 53° at Scilly to 35° at Sumburgh Head and Wick. *Wind* light North-Westerly on our northern coasts as well as on the eastern shores of the North Sea, but Southerly or South-Easterly on our southern coasts, Easterly in the north-west, and North-Westerly in the south of Ireland; strong in force on our south-west coasts. *Sea* rough south-west; moderate to smooth elsewhere. *Barometer* falling at all but the Swedish and southern French stations. Pressure highest Bay of Biscay, with well-marked depression off the south of Ireland. Depression moving eastwards later, and barometer rising in Ireland.	
		**Thursday, October 22.** *Weather* fine at several of our western and northern stations, but cloudy elsewhere, with rain in the north of England, and snow or sleet showers in some parts of Scotland. Rain continuing in north of England all day. *Temperature* fallen several degrees in the west and north; readings ranging from 53° at Scilly to 28° at Nairn. Sharp frost in North of Scotland at night. *Wind* light Northerly in Scotland, but moderate Easterly or North-Easterly in most other parts of our Islands, and Westerly or South-Westerly in France. *Sea* rather rough at Scilly, moderate to smooth elsewhere. *Barometer* falling at all but our south-western and the Scandinavian stations, depression of previous day lying near Havre in morning, but subsequently moving slowly eastwards and dispersing. Fresh fall taking place in Ireland in afternoon.	
		**Friday, October 23.** *Weather* fine and bright in Denmark and Scotland, but cloudy or overcast elsewhere, with rain at most of the southern stations as well as in the north of England. Heavy rain falling later in nearly all parts of England. *Temperature* changed little and irregularly; readings ranging from 50° at Jersey to 24° at Nairn. *Wind* Easterly or North-Easterly in our Islands, but South-Westerly at the French stations, strong in force on many of the more exposed parts of our coasts. Subsequently backing to North on our south-west coasts. *Sea* rather rough at the mouth of the Channel and also at Donaghadee and Yarmouth. *Barometer* falling at most of the English and French stations, but rising elsewhere. Areas of relatively high pressure lying over Sweden and France, with new and well marked depression near the mouth of the Channel. Depression moving slowly eastwards later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

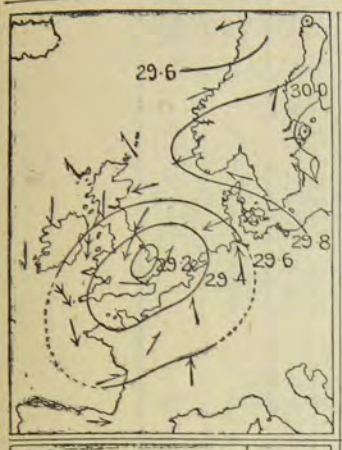
Weather

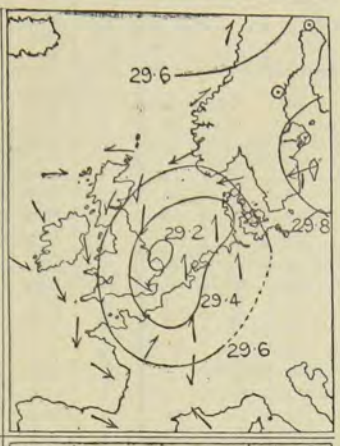
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Saturday, October 24.

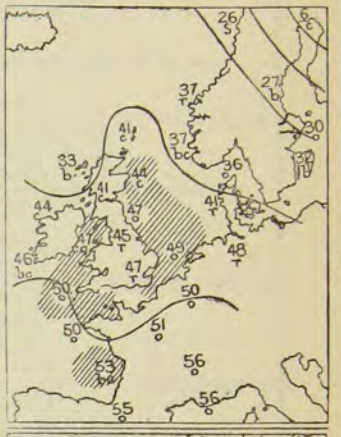
Weather fair at many of the Irish and Scotch stations, but cloudy or overcast elsewhere, with rain in the east and south-east of England.

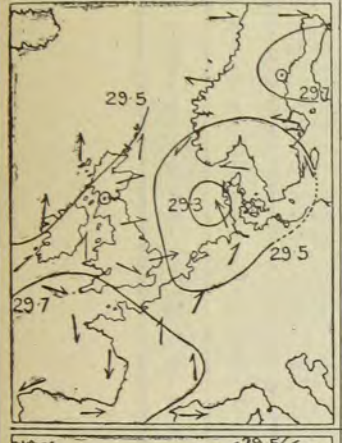
Temperature risen a little generally; readings ranging from 51° at Dungeness and 50° at Scilly to 33° at Stornoway and Nairn. Sharp frost in Scotland at night—thermometer at Nairn falling to 20°.

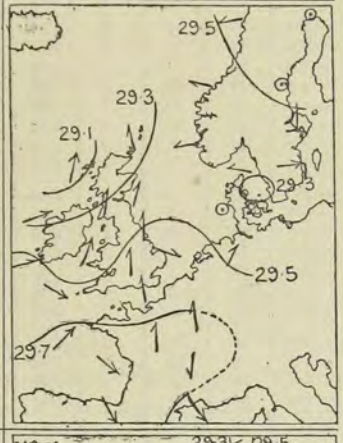
Wind Easterly on the eastern shores of the North Sea and North-Easterly on our north-east coasts, but Northerly in the west, North-Westerly in the south-west and South-Westerly or Southerly in the south-east; strong to a gale on our west coasts.

Sea rough in the west and east.

Barometer falling at all but our western stations. Depression of previous day now lying over the Wash and new disturbance shown over the north of Scandinavia. Rise taking place in all parts of our Islands later.







Sunday, October 25.

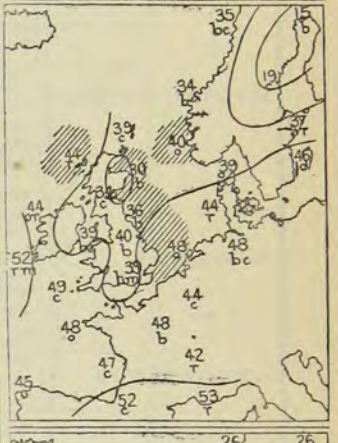
Weather rainy in Ireland and the west of Scotland as well as on the eastern shores of the North Sea, but fine and bright elsewhere. Rain falling later at all but our south-eastern stations.

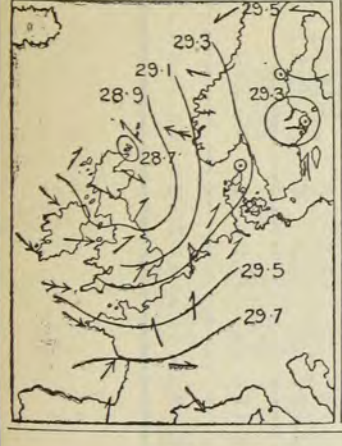
Temperature fallen generally—several degrees in Scotland; readings ranging from 52° at Valencia to 23° at Nairn. Brisk rise taking place in Scotland later.

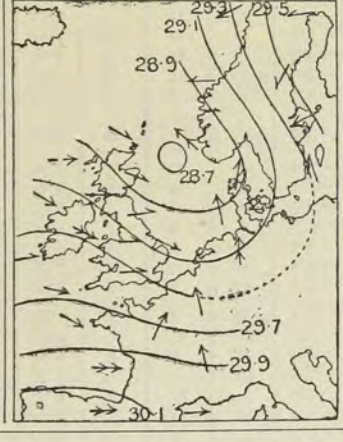
Wind chiefly North-Westerly over England and France, but Southerly on our extreme north and north-west coasts; moderate in force generally, but fresh or strong in the north-west and south-east. Subsequently backing to South over England.

Sea rough on our north and east coasts, moderate to smooth elsewhere.

Barometer falling at all but the English and French stations. Depression of previous two days now lying off the Danish coast, but new disturbance appearing in the north-west of our Islands. Fall extending over England later.







Monday, October 26.

Weather cloudy or overcast generally, with rain in many places. Sky clearing somewhat later, but weather remaining showery.

Temperature risen considerably, readings ranging from 55° at Roche's Point, Pembroke, and Jersey, to 39° at Stornoway.

Wind North-Westerly in the west, but South-Westerly in the east, and South-Easterly or Easterly in Norway; strong to a gale in force on our western and southern coasts. Subsequently veering to west on our east coasts.

Sea rough in the west and south-west generally, and rather rough at Yarmouth; moderate to smooth elsewhere.

Barometer falling generally. Pressure highest in south of France, with small but deep depression lying off north of Scotland. Depression moving eastwards later, but further systems appearing in north.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⟹ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 169 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	47	30	44·3	33·7	38·8	− 4·7	6	29	6	0·80	−0·23	*	*
	Stornoway	48	28	46·3	32·4	39·1	− 4·2	12	35	5	0·89	−0·22	28	42
	Wick	49	22	45·7	29·7	37·5	− 5·6	10	44	3	0·70	0·00	*	*
1. SCOTLAND, E.	Nairn	47	20	44·7	26·3	35·2	− 7·5	8	55	2	0·39	−0·16	*	*
	Aberdeen	49	26	45·7	30·4	37·8	− 5·1	10	41	4	0·84	+0·19	29	43
	Leith	52	27	47·9	33·0	40·2	− 2·7	17	34	4	0·52	+0·05	*	*
2. ENGLAND, N.E.	Alnwick Castle	49	35	45·4	38·9	42·1	− 3·5	14	9	5	0·97	?	*	*
	Shields	51	35	47·3	38·6	42·8	− 3·6	20	10	5	1·98	+1·42	*	*
	Scarborough ℔	52	40	47·6	41·0	44·2	− 2·1	20	3	6	2·54	+1·89	*	*
	York	53	37	47·9	38·7	43·2	− 4·1	22	9	6	2·09	+1·54	7	10
	Spurn Head	51	41	48·6	42·0	45·2	− 2·0	22	0	7	1·93	?	*	*
3. ENGLAND, E.	Hillington ℔	54	35	49·1	38·0	43·4	− 4·3	27	11	5	1·66	+1·12	15	22
	Yarmouth	54	37	49·7	40·9	45·2	− 3·4	27	3	6	1·70	+1·10	*	*
	Geldeston	56	34	50·1	39·3	44·5	− 4·3	29	8	5	1·45	+0·95	13	19
	Cambridge	58	36	50·9	38·6	44·6	− 3·7	32	10	5	1·40	+0·92	16	23
	Rothamsted	57	36	50·2	39·5	44·7	− 2·7	29	7	6	1·08	+0·45	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	53	36	48·3	39·6	43·8	− 3·8	23	7	6	2·14	+1·53	*	*
	Loughborough	56	36	48·6	38·6	43·5	− 3·6	25	10	6	1·75	+1·15	*	*
	Leicester	55	36	48·7	40·0	44·2	− 2·6	24	6	6	1·55	+1·00	7	10
	Cheadle ℔	53	32	45·5	37·3	41·3	− 4·9	10	18	6	1·68	?	*	*
	Churchstoke ℔	54	30	46·6	37·2	41·8	− 5·0	13	19	7	1·17	?	7	10
	Hereford ℔	57	28	50·2	38·3	44·1	− 3·5	30	10	5	0·69	+0·01	*	*
	Cirencester	55	32	49·0	38·4	43·5	− 4·2	26	10	5	0·92	+0·21	10	14
	Oxford	57	35	50·1	39·3	44·5	− 3·4	29	8	5	1·05	+0·45	14	20
5. ENGLAND, S.	London†	57	37	51·6	40·7	46·0	− 2·7	33	4	5	1·05	+0·45	8	11
	Marlborough ℔	55	33	48·9	39·4	44·0	− 3·3	25	7	5	0·84	+0·11	9	13
	Strathfield Turgiss ℔	58	33	51·6	38·2	44·7	− 4·0	35	11	4	1·13	+0·53	*	*
	Dungeness	56	39	51·7	41·3	46·4	− 3·0	34	2	5	1·48	?	*	*
	Hastings (St. Leonard's)	56	37	51·1	41·8	46·3	− 3·6	31	1	6	1·39	+0·61	14	20
	Southampton	57	34	51·9	41·0	46·3	− 3·6	34	3	5	1·31	+0·59	9	13
	Hurst Castle	55	36	52·4	41·1	46·6	− 3·7	36	3	5	1·38	+0·68	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	50	28	46·1	32·6	39·2	− 7·5	11	35	2	1·70	?	*	*
	Glasgow	48	26	45·1	33·9	39·3	− 5·5	9	29	3	0·55	−0·40	13	19
	Ardrossan	50	30	46·3	34·7	40·2	− 6·1	12	26	4	0·88	−0·12	*	*
	Douglas (Isle of Man)	51	28	47·7	37·9	42·7	− 5·0	22	11	4	1·68	+0·78	23	33
7. ENGLAND, N.W.	Newton Reigny (Penrith)	49	29	45·1	35·8	40·3	− 5·0	9	23	5	0·76	?	15	22
	Barrow-in-Furness	50	36	47·9	38·1	42·9	− 5·0	23	11	4	1·33	?	*	*
	Stonyhurst	50	31	46·6	37·4	41·9	− 5·7	13	19	5	1·43	+0·19	8	12
	Blackpool ℔	51	30	47·5	36·3	41·7	− 7·0	15	22	5	0·95	−0·03	8	12
	Manchester	51	32	46·2	37·9	42·0	− 5·3	12	11	5	2·25	+1·40	*	*
	Liverpool Obs' (Bidston)	51	38	47·3	40·1	43·6	− 4·8	19	5	5	2·11	+1·36	*	*
	Llandudno ℔												9	13
	Holyhead	53	39	49·3	41·7	45·5	− 4·6	26	1	5	1·08	0·00	*	*
8. ENGLAND, S.W.	Llandovery	54	25	49·7	37·0	43·2	− 5·9	29	14	6	1·13	?	*	*
	Pembroke	58	43	52·4	44·3	48·2	− 3·1	43	0	5	1·46	+0·49	9	13
	Arlington (N. Devon)	52	34	48·7	39·7	44·1	− 4·3	24	6	7	2·35	?	*	*
	Cullompton ℔	57	34	51·0	41·4	46·1	− 2·9	31	2	7	1·81	?	8	11
	Falmouth	57	40	52·0	43·7	47·7	− 3·6	40	0	7	3·01	+1·71	10	14
	Plymouth	57	34	53·2	39·9	46·2	− 4·4	38	6	7	2·00	+1·18	5	7
	Prawle Point	57	37	52·3	40·7	46·3	− 4·6	36	4	6	2·13	?	*	*
9. IRELAND, N.	Malin Head	49	34	46·9	40·1	43·4	− 3·5	18	5	4	0·67	?	*	*
	Londonderry	52	32	49·0	36·4	42·5	− 3·9	27	16	5	0·61	−0·34	*	*
	Mullaghmore	52	38	49·1	40·6	44·7	− 2·0	25	4	4	0·89	?	*	*
	Belmullet	52	38	49·1	41·1	45·0	− 4·4	25	3	5	1·30	?	*	*
	Markree Castle	52	27	49·4	34·1	41·5	− 4·6	21	31	4	1·13	+0·25	19	28
	Brookeborough	50	28	47·8	34·7	41·1	− 4·5	16	29	2	0·90	?	*	*
	Armagh	52	31	48·1	35·9	41·8	− 4·5	17	24	5	0·61	−0·09	18	26
	Donaghadee	50	33	47·3	39·4	43·2	− 5·7	19	7	3	0·40	−0·40	*	*
	Edgeworthstown	53	28	49·1	35·6	42·2	− 3·6	28	18	5	1·04	?	*	*
10. IRELAND, S.	Dublin	53	33	48·5	39·7	44·0	− 3·9	24	6	6	0·93	+0·14	13	19
	Parsonstown	54	30	48·7	35·1	41·7	− 5·0	19	27	6	1·18	+0·48	19	28
	Kilkenny	53	28	48·1	36·6	42·2	− 4·8	24	15	5	1·38	?	*	*
	Waterford	55	28	49·9	37·3	43·4	− 6·2	30	13	5	1·45	+0·47	*	*
	Roche's Point	55	37	51·4	39·7	45·4	− 4·9	33	6	5	1·04	+0·06	*	*
	Valencia	55	37	52·3	41·3	46·6	− 4·3	35	2	5	1·61	+0·24	11	16
	Killarney	55	31	49·7	36·1	42·7	− 6·7	30	17	5	1·74	?	*	*
	Foynes	54	36	51·6	39·5	45·4	− 2·5	34	7	4	1·40	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	41	53·1	46·1	49·5	− 3·7	53	0	7	1·75	+0·85	*	*
	Jersey (Noirmont)	57	43	53·6	45·6	49·5	− 3·4	53	0	7	1·99	+1·04	11	15

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 44.] *New Series.* WEEK ENDING MONDAY, 2ND NOVEMBER, 1885. [*Price* 4*d.* [*Annual subscription, post paid,* £1 1*s.* 2*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 176.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	54	30	47·9	38·5	43·0	1 below.	22	1474	10	603
	1. SCOTLAND, EAST	59	31	49·5	37·4	43·3	0 (average).	28	2072	13	637
	2. ENGLAND, N.E.	57	31	48·5	39·6	43·9	1 below.	23	2233	7	474
	3. ENGLAND, EAST	56	30	48·3	37·7	42·8	3 below.	24	2613	12	597
	4. MIDLAND COUNTIES	57	29	47·9	36·9	42·3	3 below.	24	2572	14	612
	5. ENGLAND, SOUTH	57	31	50·5	38·5	44·3	3 below.	31	2910	10	428
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	54	33	47·7	39·4	43·5	1 below.	21	2028	7	498
	7. ENGLAND, N.W.†	56	26	47·6	38·3	42·8	3 below.	21	2231	10	453
	8. ENGLAND, S.W.	55	30	51·0	40·8	45·8	3 below.	32	2600	3	342
	9. IRELAND, NORTH	56	32	49·8	40·1	44·9	1 below.	28	2234	5	431
	10. IRELAND, SOUTH	58	33	51·0	40·9	45·8	1 below.	31	2567	3	349
	— CHANNEL ISLANDS	56	43	52·3	45·9	49·0	2 below.	46	2979	0	106

	DISTRICTS. (See p. 176.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	11	2 more.	210	29·3	8	1172	13	28
	1. SCOTLAND, EAST	5	5	1 less.	159	19·2	14	1346	22	33
	2. ENGLAND, N.E.	6	8	1 more.	156	21·1	7	952	11	24
	3. ENGLAND, EAST	5	11	5 more.	153	23·5	25	1406	37	36
	4. MIDLAND COUNTIES	5	15	9 more.	158	23·7	22	1323	33	33
	5. ENGLAND, SOUTH	3	7	0 (average).	144	22·9	25	1416	37	36
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	20	7 more.	173	37·7	14	1264	21	34
	7. ENGLAND, N.W.†	6	21	12 more.	167	27·9	12	1221	19	30
	8. ENGLAND, S.W.	7	15	5 more.	175	33·6	24	1477	35	37
	9. IRELAND, NORTH	7	12	4 more.	185	30·0	16	1159	24	29
	10. IRELAND, SOUTH	6	10	0 (average).	177	34·9	19	1395	28	35
	— CHANNEL ISLANDS	6	11	1 more.	188	26·4	28	1788	41	45

General Remarks.

Weather has been rough, cloudy, and dull very generally, with a considerable amount of rain.

Temperature has about equalled the mean in "Scotland, E.", but elsewhere it has continued below, the deficit varying between 1° and 3°. The daily maxima were generally low, but on 2nd November they ranged from 54° in the north and west of Scotland, to 58° in "Ireland, S." and 59° in "Scotland, E." The minima, which were recorded either on October 30th or 31st, varied between 26° in "England, N.W.", 29° in the "Midland Counties", and 33° in "Scotland, W." and "Ireland, S." In the "Channel Islands" the minimum was 43°.

Rainfall has been rather less than the mean in "Scotland, E." and about equal to it in "England, S." and "Ireland, S.", but more in all other districts. Over central and north-western England the excess was large.

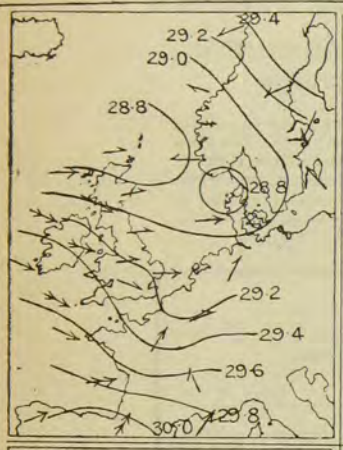
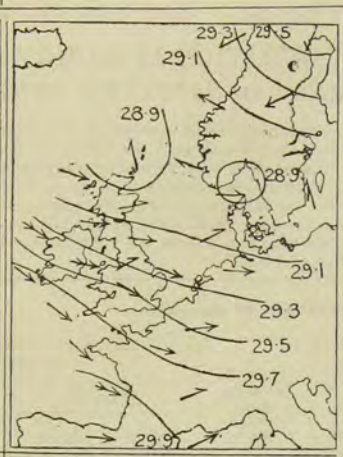
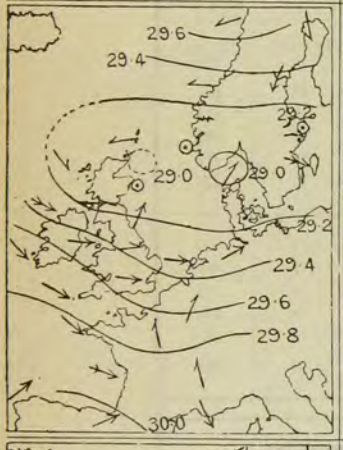
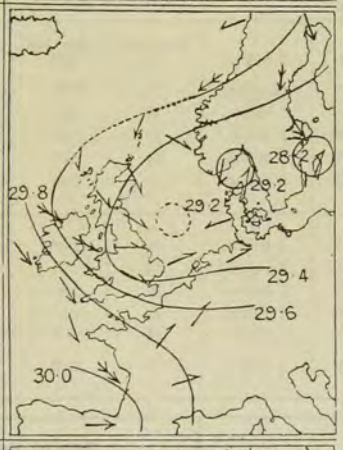
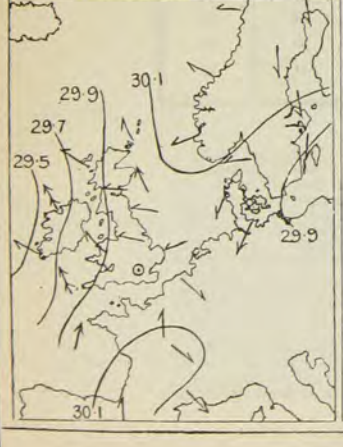
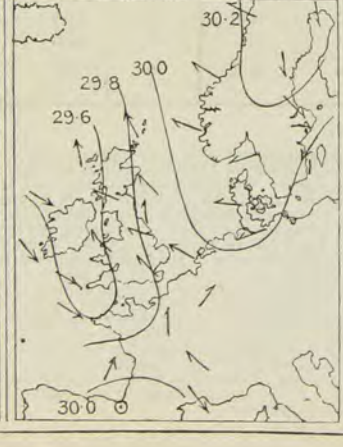
Bright sunshine shows a decrease in Scotland, but an increase over England and Ireland. The percentages of the possible duration ranged from 11 in "England, N.E." to 37 in the "Midland Counties" and 41 in the "Channel Islands".

Depressions observed.—The distribution of barometric pressure has been subject to considerable changes and the movements of the depressions somewhat erratic. The disturbances which most affected the winds and weather in our Islands were the following: (1.) A band or "trough" of low pressure, having two distinct minima, which stretched from Scotland to the south of Sweden on the 28th, and subsequently moved south-eastwards; and, (2) a small but rather deep depression which moved quickly up the Channel during the night of the 30th-31st, and afterwards disappeared to the south-eastward. At the end of the period the barometer was again falling in the west and further depressions were approaching us from the Atlantic. Strong Westerly winds or gales were prevalent till late on the 28th, when fresh North-Westerly or Northerly breezes became general for a time. By the 30th, however, the wind was blowing strongly from the Southward in the west and moderately from East in the south-east, but as the depression referred to above passed along the Channel, strong winds or gales from between East and North were experienced on our east and south-east coasts. At the close of the period moderate to strong South-Westerly breezes were reported.

† The accumulated values in this district are liable to alteration owing to the non-arrival of the Return from Llandudno.

E 19486. 350.—11/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, October 27.** *Weather* showery in many parts of our Islands and rainy at some of the French and Scandinavian stations. Lightning seen at Prawle Point at night. *Temperature* fallen generally ; readings ranging from 52° at Jersey to 38° at Nairn. Maxima below 50° at all but our extreme southern stations. *Wind* South-Easterly or Easterly in Scandinavia, but Westerly or North-Westerly in our Islands and France ; fresh in force at our eastern stations, but strong to a gale in the west and south-west. *Sea* rough in the west and south-west. *Barometer* rising in most parts of our Islands and France, but falling at the Scandinavian stations. Pressure highest in Spain, with a well-defined depression near the Skager Rack, and another disturbance to the northward of the Shetlands. No important change later.	
		**Wednesday, October 28.** *Weather* rainy in the south of Sweden and showery in the west of our Islands, but fair or fine elsewhere. Showers falling later in all parts of the Kingdom, and thunder and lightning occurring in the south-west. *Temperature* fallen a little in most places ; readings ranging from 50° at Scilly and Jersey to 37° at Wick and Aberdeen. *Wind* Easterly in Scandinavia, but Westerly or North-Westerly elsewhere ; light in force in the north and fresh in the east, but strong to a gale in the west and south-west. Subsequently veering to North or North-East in Scotland, and freshening. *Sea* high off the north of Ireland and also at Scilly ; rough in the west and south-west generally. *Barometer* rising generally. Distribution of pressure very similar to that of previous day, but disturbance then reported near the Shetlands now lying off the north-east of Scotland. Depressions subsequently moving south-eastwards, and barometer continuing to rise at all but the French stations.	
		Thursday, October 29. *Weather* fair in most places, but showery at some of our eastern stations. Subsequently becoming dull and rainy in the extreme west. *Temperature* risen a little in our Islands, but fallen in Scandinavia and the south of France ; readings ranging from 51° at Scilly to 36° at Parsonstown. Frost occurring over Great Britain at night. *Wind* North-Easterly in Scandinavia and Scotland, but Northerly or North-Westerly elsewhere ; fresh to strong in force on our north and east coasts. Subsequently shifting to the South-Eastward in the west of Ireland. *Sea* rough on our northern coasts and also at the mouth of the Channel, moderate to smooth elsewhere. *Barometer* rising generally. Pressure highest to the westward and south-westward of our Islands, with depressions over the Baltic and the southern part of the North Sea. Rather brisk fall setting in on our west coast later.	
		**Friday, October 30.** *Weather* rainy at most of our western and south-western stations, but fair in most other localities. Rain extending later to all parts of the Kingdom, the fall in many places being heavy. *Temperature* risen in the south of Ireland, but fallen elsewhere ; readings ranging from 52° at Valencia to 31° at Loughborough. *Wind* North-Easterly in Sweden and Denmark, but South-Easterly or Southerly elsewhere, strong to a gale in force on our western and northern coasts. Subsequently shifting to North-West in Ireland, and moderating. *Sea* rather rough in the north-east, north-west, and south-west, moderate to smooth elsewhere. *Barometer* rising at the Continental stations, but falling in our Islands, most in the west. Pressure high over Norway and France, with a rather deep depression off the west of Ireland. Depression subsequently moving northwards, but subsidiary disturbance appearing over Bristol Channel.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m.	6 p.m.

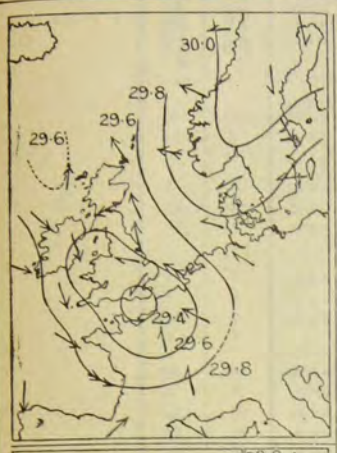
Weather

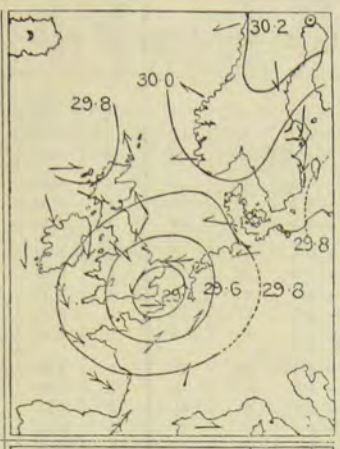
During the 24 hours succeeding 8 a.m. on the dates given.

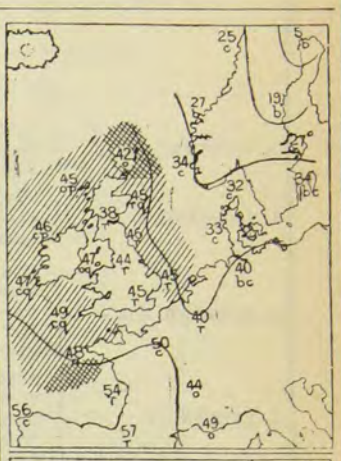
Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.







Saturday, October 31.

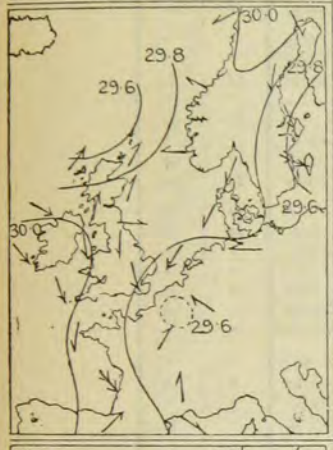
Weather dull and rainy in nearly all parts of Great Britain and France, but fair on our extreme west and south-west coasts.

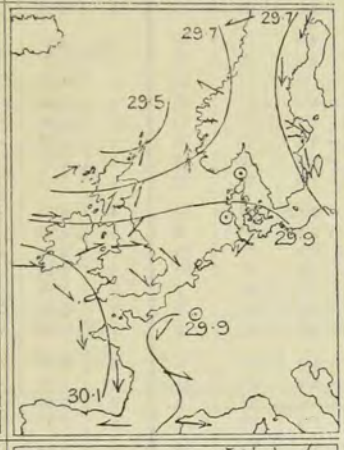
Temperature risen a little at all but our south-western stations; readings ranging from 49° at Scilly and Jersey to 39° at Parsonstown and 38° at Ardrossan.

Wind strong to a gale from the South-Eastward on our north and east coasts, but fresh or strong from North-West in the west and south-west. North-East gale blowing on our south-east coasts later.

Sea high off the north of Scotland and rough on nearly all the more exposed parts of our coasts.

Barometer rising in the west and north-west of our Islands, but falling elsewhere. Large depression lying off our extreme north-west coasts, and smaller but rather deep disturbance over the south-east of England. Latter subsequently moving eastwards and barometer rising generally.





Sunday, November 1.

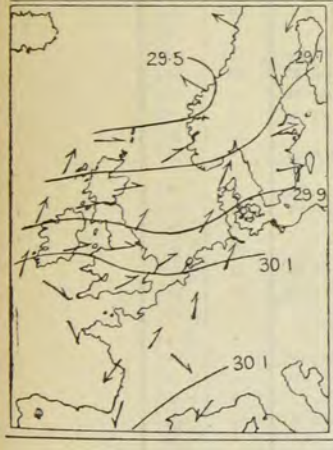
Weather fine at most of the English and Irish stations as well as on the eastern shores of the North Sea, but cloudy elsewhere, with rain locally. Rain falling later at several of our northern stations.

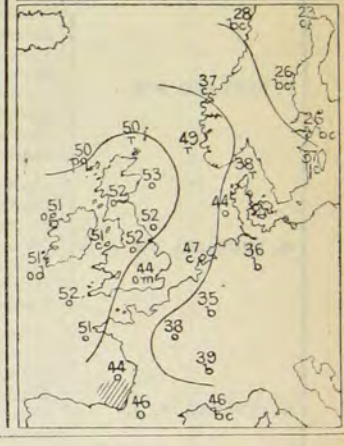
Temperature fallen a little generally; readings ranging from 51° at Mullaghmore and Valencia to 38° at Shields.

Wind Northerly or North-Westerly over Sweden and the greater part of our Islands and France, but South-Westerly on our northern coasts and also in the east of France; moderate or fresh in force generally.

Sea rough on some parts of our south and east coasts, rather rough at Sumburgh Head, moderate to smooth elsewhere.

Barometer rising over England, Ireland, and France, but falling elsewhere. Pressure highest to the south-westward of our Islands and relatively high over the north of Scandinavia, with depressions over the Baltic, the north-east of France, and our extreme northern coasts.





Monday, November 2.

Weather fair in the south and south-east of our Islands, and also in the north of Scandinavia, but cloudy or overcast elsewhere, with rain at several of our northern stations. Rain falling in the west later.

Temperature risen several degrees in our Islands, but fallen at the continental stations; readings ranging from 53° at Nairn and Aberdeen, to 41° at Dungeness.

Wind North-Easterly in the south of France, and South-Easterly in the west of Norway, but South-Westerly or Westerly elsewhere; moderate in force generally. Subsequently increasing to strong breeze in the west and north-west.

Sea moderate in the extreme west and north, slight or smooth elsewhere.

Barometer rising at all but our extreme western, northern, and the Scandinavian stations. Anticyclone lying over France, and large depression off the west of Norway. Further disturbances approaching our west coasts later.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⟶ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 173 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	51	38	46·9	39·3	43·0	− 1·0	18	8	5	0·93	−0·07	*	*
	Stornoway	53	36	48·7	39·4	43·9	+ 0·2	24	7	6	1·91	+0·85	8	13
	Wick	54	30	48·1	36·7	42·2	− 1·4	24	15	5	0·44	−0·26	*	*
1. SCOTLAND, E.	Nairn	59	31	48·7	37·4	42·9	− 0·5	26	13	5	0·52	−0·03	*	*
	Aberdeen	59	34	50·1	36·9	43·3	− 0·5	31	14	5	0·38	−0·31	14	22
	Leith	58	34	49·6	37·9	43·6	+ 0·3	28	11	5	0·59	+0·11	*	*
2. ENGLAND, N.E.	Alnwick Castle	55	35	48·0	40·0	43·9	+ 0·1	22	6	6	0·98	?	*	*
	Shields	55	35	49·1	38·6	43·7	− 1·3	26	10	6	0·63	+0·03	*	*
	Scarborough ℜ	57	38	48·6	41·4	44·9	+ 0·5	23	2	6	0·38	−0·32	*	*
	York	54	31	49·0	37·3	43·0	− 2·3	27	13	5	0·90	+0·34	7	11
	Spurn Head	51	39	47·7	40·7	44·1	− 1·7	20	4	6	0·85	?	*	*
3. ENGLAND, E.	Hillington ℜ	51	30	48·2	36·9	42·4	− 3·5	24	14	5	1·26	+0·68	24	36
	Yarmouth	51	37	47·3	40·1	43·6	− 3·2	19	5	5	0·92	+0·27	*	*
	Geldeston	52	34	48·4	38·1	43·1	− 3·7	24	11	6	1·24	+0·68	26	39
	Cambridge	56	31	49·4	36·1	42·6	− 3·6	29	17	5	0·96	+0·48	25	37
	Rothamsted	54	32	48·3	37·1	42·5	− 3·0	24	14	6	0·98	+0·38	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	55	30	48·6	37·7	43·0	− 2·8	25	12	5	1·19	+0·60	*	*
	Loughborough	57	29	48·7	36·1	42·2	− 2·8	26	17	5	1·77	+1·21	*	*
	Leicester	56	30	48·4	37·7	42·9	− 1·9	24	12	6	1·81	+1·28	16	24
	Cheadle ℜ	54	33	45·7	36·3	40·9	− 3·4	10	22	6	2·06	?	*	*
	Churchstoke ℜ	54	34	47·3	37·1	42·1	− 2·7	21	14	5	1·44	?	20	30
	Hereford ℜ	54	32	48·4	36·5	42·3	− 3·1	25	15	5	1·02	+0·37	*	*
	Cirencester	52	31	47·6	36·0	41·6	− 3·8	16	24	5	1·10	+0·40	27	40
	Oxford	54	32	48·6	37·7	43·0	− 2·8	25	12	4	1·18	+0·62	24	36
5. ENGLAND, S.	London†	57	33	50·1	38·4	44·1	− 2·5	30	10	4	0·74	+0·20	20	30
	Marlborough ℜ	52	31	48·4	36·0	42·2	− 3·1	27	17	4	0·91	+0·21	24	36
	Strathfield Turgiss ℜ	53	31	50·3	37·4	43·7	− 2·8	31	13	3	0·71	+0·11	*	*
	Dungeness	55	32	52·0	38·4	45·0	− 2·6	36	10	3	0·53	?	*	*
	Hastings (St. Leonard's)	54	38	50·5	39·6	44·9	− 3·0	30	7	2	0·61	−0·16	27	40
	Southampton	54	35	51·0	38·8	44·7	− 3·3	32	9	3	0·81	+0·11	28	42
	Hurst Castle	54	37	51·0	40·6	45·7	− 2·7	32	4	4	0·66	−0·04	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	54	36	47·1	40·2	43·6	− 1·5	19	5	6	3·19	?	*	*
	Glasgow	53	34	47·3	38·2	42·6	− 0·2	20	11	4	1·46	+0·55	9	14
	Ardrossan	53	33	48·3	38·9	43·5	− 0·9	24	9	6	1·05	+0·07	*	*
	Douglas (Isle of Man)	54	33	48·1	40·4	44·1	− 1·3	21	4	4	2·27	+1·35	13	27
7. ENGLAND, N.W.	Newton Reigny (Penrith)	55	26	45·5	34·9	40·0	− 3·6	10	26	6	1·14	?	8	12
	Barrow-in-Furness	52	35	47·9	38·9	43·3	− 2·8	22	9	6	2·55	?	*	*
	Stonyhurst	51	31	47·2	37·3	42·1	− 2·9	20	13	6	2·29	+1·14	11	17
	Blackpool ℜ	52	29	47·7	37·8	42·6	− 4·3	22	12	6	2·21	+1·36	17	26
	Manchester	52	31	46·5	37·0	41·6	− 4·0	13	20	6	2·14	+1·34	*	*
	Liverpool Obsy (Bidston)	56	36	47·7	39·1	43·3	− 3·4	21	8	5	2·17	+1·48	*	*
	Llandudno ℜ												13	20
	Holyhead	54	40	50·6	42·9	46·6	− 2·1	32	0	5	1·93	+0·94	*	*
8. ENGLAND, S.W.	Llandovery	55	30	50·6	36·1	43·1	− 4·2	32	17	7	1·43	?	*	*
	Pembroke	53	43	50·3	44·6	47·4	− 2·2	38	0	7	1·30	+0·35	22	33
	Arlington (N. Devon)	52	35	49·1	39·6	44·2	− 2·4	25	7	7	1·33	?	*	*
	Cullompton ℜ	55	33	51·6	39·7	45·5	− 1·6	34	6	6	1·70	?	23	34
	Falmouth	55	42	51·9	44·0	47·8	− 2·0	41	0	7	2·11	+0·85	26	38
	Plymouth	54	38	51·7	41·0	46·2	− 2·7	34	3	6	1·69	+0·89	23	34
	Prawle Point	55	38	52·1	40·4	46·1	− 3·6	35	4	6	0·92	?	*	*
9. IRELAND, N.	Malin Head	55	38	51·7	41·9	46·7	+ 1·0	33	0	7	0·61	?	*	*
	Londonderry	55	37	49·7	40·0	44·7	− 0·2	27	6	7	1·21	+0·26	*	*
	Mullaghmore	56	41	51·1	43·9	47·4	+ 2·3	38	0	7	1·07	?	*	*
	Belmullet	55	40	50·4	42·7	46·2	− 1·9	29	0	7	1·28	?	*	*
	Markree Castle	54	37	49·9	39·6	44·6	− 0·2	28	7	7	1·57	+0·71	19	29
	Brookeborough	53	32	48·8	37·8	43·1	− 0·8	25	12	6	1·78	?	*	*
	Armagh	54	34	48·9	38·6	43·6	− 1·2	25	10	7	0·69	+0·04	12	18
	Donaghadee	55	38	48·7	40·4	44·4	− 2·7	24	4	6	1·35	+0·57	*	*
	Edgeworthstown	55	33	49·3	38·0	43·5	− 1·1	27	11	6	1·01	?	*	*
10. IRELAND, S.	Dublin	56	36	49·6	39·9	44·6	− 1·6	27	6	6	0·60	−0·10	16	24
	Parsonstown	58	34	50·4	37·3	43·7	− 1·3	32	13	5	0·47	−0·19	24	36
	Kilkenny	56	33	50·4	38·1	44·1	− 1·4	31	11	5	0·62	?	*	*
	Waterford	53	34	50·2	38·9	44·4	− 3·7	30	9	4	1·40	+0·45	*	*
	Roche's Point	53	40	51·3	42·7	46·9	− 2·0	34	0	7	1·00	+0·02	*	*
	Valencia	56	42	53·7	44·6	49·0	− 0·7	49	0	7	0·90	−0·40	17	25
	Killarney	55	38	51·2	42·9	46·9	− 1·1	34	0	6	1·46	?	*	*
	Foynes	58	40	51·2	42·9	46·9	+ 1·0	34	0	6	1·20	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	45	52·6	46·3	49·4	− 2·4	52	0	5	0·39	−0·51	*	*
	Jersey (Noirmont)	54	43	52·0	45·4	48·6	− 2·2	46	0	6	1·73	+0·78	28	41

Stations marked ℜ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 45.] *New Series.* WEEK ENDING MONDAY, 9TH NOVEMBER, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 180.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	58	32	50·3	40·5	45·4	3 above.	30	1504	4	607
	1. SCOTLAND, EAST	63	27	52·3	39·0	45·7	4 above.	39	2111	8	645
	2. ENGLAND, N.E.	59	31	49·2	40·4	44·8	2 above.	26	2259	4	478
	3. ENGLAND, EAST	53	29	48·0	38·3	43·2	1 below.	24	2637	10	607
	4. MIDLAND COUNTIES	58	30	48·8	39·9	44·4	1 above.	26	2598	6	618
	5. ENGLAND, SOUTH	55	30	50·1	39·5	44·8	1 below.	30	2940	7	435
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	57	34	50·6	43·0	46·8	4 above.	34	2062	0	498
	7. ENGLAND, N.W.*	59	31	49·8	41·2	45·5	1 above.	28	2259	2	455
	8. ENGLAND, S.W.	55	31	51·3	43·8	47·5	1 above.	39	2639	0	342
	9. IRELAND, NORTH	60	33	51·6	42·8	47·2	3 above.	36	2270	0	431
	10. IRELAND, SOUTH	62	35	53·3	44·5	48·9	4 above.	48	2615	0	349
	— CHANNEL ISLANDS	57	40	52·0	46·5	49·3	0 (average).	51	3030	0	106

	DISTRICTS. (See p. 180.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	7	2 less.	214	30·0	7	1179	12	29
	1. SCOTLAND, EAST	2	2	4 less.	161	19·4	17	1363	30	34
	2. ENGLAND, N.E.	2	1	5 less.	158	21·2	6	958	9	24
	3. ENGLAND, EAST	4	10	4 more.	157	24·5	9	1415	14	35
	4. MIDLAND COUNTIES	4	5	0 (average).	162	24·2	5	1328	12	33
	5. ENGLAND, SOUTH	4	6	0 (average).	148	23·5	7	1423	11	36
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	9	3 less.	178	38·6	8	1272	14	31
	7. ENGLAND, N.W.*	4	6	2 less.	171	28·5	6	1227	10	30
	8. ENGLAND, S.W.	5	6	4 less.	180	34·2	16	1493	25	37
	9. IRELAND, NORTH	4	8	0 (average).	189	30·8	10	1169	16	29
	10. IRELAND, SOUTH	5	7	3 less.	182	35·6	13	1408	20	35
	— CHANNEL ISLANDS	5	6	3 less.	193	27·0	7	1795	11	45

General Remarks.

Weather has been very dull and damp over the whole Kingdom, but especially over the southern, south-western, and western districts. Rain has fallen very generally, and hail in some places, but, except in most parts of England and the N. of Ireland, the amount has been inconsiderable.

Temperature has been higher than of late in all parts of the country. In "England, E." and "England, S." the values for the week have again been slightly below the mean, while in the "Channel Islands" the mean has been equalled; but in all other districts the readings show an excess varying between 1° and 4°. The maxima were generally recorded on the 3rd, when the thermometer rose to 63° in "Scotland, E.", 62° in "Ireland, S.", and to 60° in "Ireland, N.", while elsewhere they ranged from 53° to 59°. The minima, which were registered in most places on the 6th, ranged from 27° in "Scotland, E." and 29° in "England, E." to 35° in "Scotland, W." and "Ireland, S.", and to 40° in the "Channel Islands".

Rainfall has been more than the mean in the east of England, but less or about equal to it elsewhere.

Bright sunshine shows a slight increase in "Scotland, E.", but a decided decrease in most other districts. The percentages of the possible duration ranged from 8 in "England, N.W." and 9 in "England, N.E." to 25 in "England, S.W." and 30 in "Scotland, E."

Depressions observed.—During nearly the whole of this period depressions have skirted or passed over our extreme north-western and northern coasts, bringing moderate to strong South-Westerly or Southerly winds to all our stations. In the earlier part of the week some subsidiary disturbances, which passed more directly over us, caused the wind to vary somewhat in direction. At the close of the period, however, the conditions had become anticyclonic, and the winds on our southern coasts light from the Eastward.

* The accumulated values in this district are liable to alteration owing to the non-arrival of some Returns from Llandudno.

E 19668. 350.—11/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts.

PRESSURE AND WIND.

8 a.m.	6 p.m.

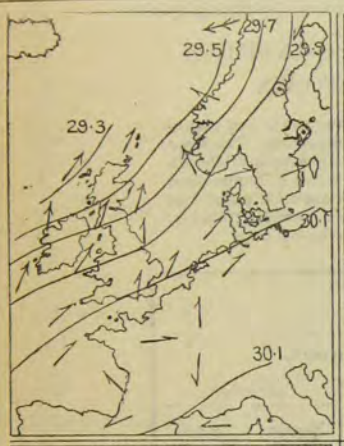
Weather

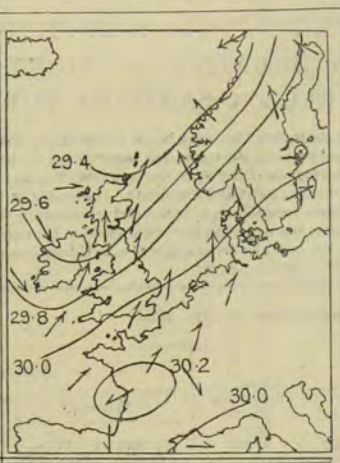
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Tuesday, November 3.

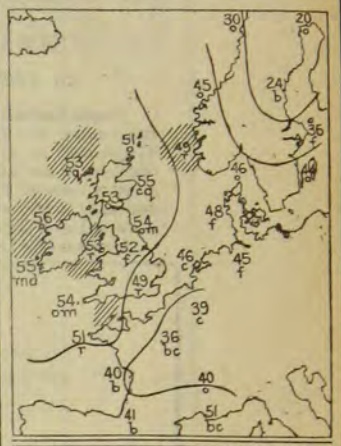
Weather fair in France and the east of Scotland, but cloudy or overcast elsewhere, with rain in many places. Rain falling later in all parts of the Kingdom.

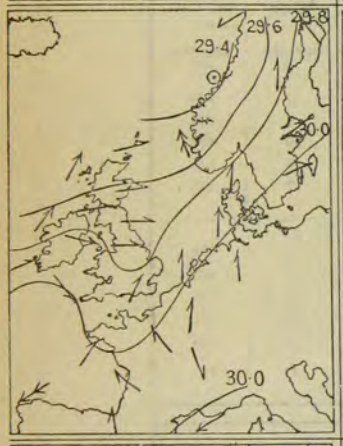
Temperature risen generally; readings ranging from 59° Nairn and 58° at Parsonstown to 48° at Yarmouth. Subsequently rising to 61° at Nairn and 63° at Leith.

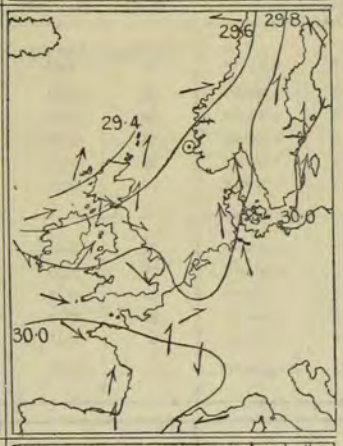
Wind Easterly in the south of France and South-Easterly in the west of Norway, but Southerly or South-Westerly elsewhere; moderate in force on our east coasts, but strong in the extreme west. Subsequently veering to North-West on the west coasts of Ireland and Scotland.

Sea rough at Stornoway and Valencia, and rather rough on our extreme west and south-west coasts generally.

Barometer falling in our Islands, but rising at most of the Continental stations. Pressure high over France and Germany, with a depression off the north-west of Scotland. Shallow disturbances appearing over our west coasts later, and rise taking place (in their rear) over Ireland.







Wednesday, November 4.

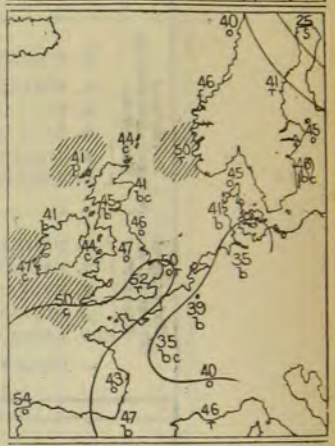
Weather fine at most of our western and northern stations, but dull and rainy in the south-east and south. Showers falling in the west and north later.

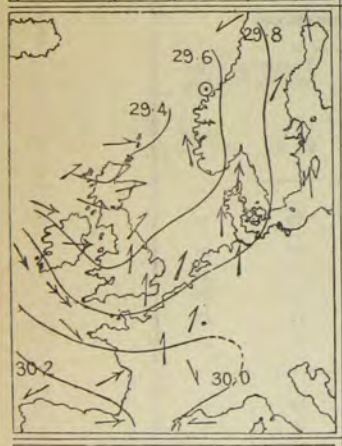
Temperature risen a little in the south-east of England, but fallen elsewhere—rapidly in Scotland and Ireland; readings ranging from 52° at our south-eastern stations to 39° at Nairn and Donaghadee and 37° at Parsonstown.

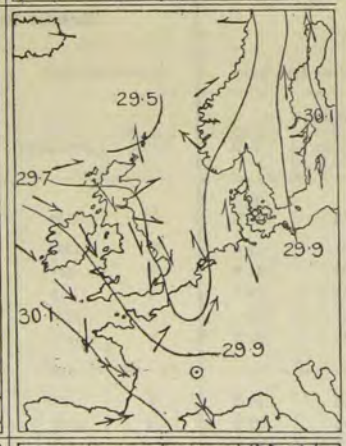
Wind North-Westerly in the west and north of England, but South-Westerly elsewhere; moderate or fresh in force generally.

Sea rather rough on our south-west coasts as well as at Stornoway.

Barometer rising at some of our western and northern statians, but falling elsewhere. Pressure highest over France and lowest off the west of Norway, with shallow subsidiary depressions over England. Depressions subsequently moving eastwards, but new disturbance appearing in north-west.







Thursday, November 5.

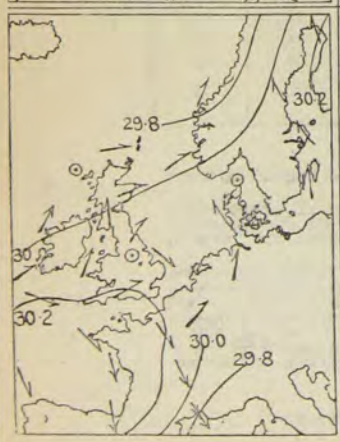
Weather fine at our eastern and a few of the western stations, but cloudy elsewhere, with steady rain in the north-west of England, and passing showers on our extreme western coasts. Rain falling in east later, and a thunderstorm occurring at Hurst Castle.

Temperature risen in Ireland, but fallen elsewhere; readings ranging from 49° at Scilly, Prawle Point, and Hurst Castle, to 35° at Aberdeen. Frost occurring over Great Britain at night.

Wind strong North-Westerly in the west and south-west, but moderate South-Westerly in the east, and fresh or strong from south on the eastern shores of the North Sea. Subsequently veering to North-West on our east and south-east coasts.

Sea rough in the west and south-west.

Barometer falling at all but our south-western and the French stations. Pressure highest Spain, but relatively high over northern Europe, with large depression to the northward of our Islands, and small subsidiary disturbances over our north-west coasts. Rise taking place later over the whole Kingdom.



Friday, November 6.

Weather fine over the eastern and central parts of the United Kingdom and France, but foggy in Denmark, and dull on our west coasts. Rain falling later at most of our western and northern stations.

Temperature risen a little on our west coasts, but fallen elsewhere; readings ranging from 52° at Scilly to 31° at Loughborough and 29° at Aberdeen. Brisk rise taking place over Great Britain later.

Wind light or moderate North-Westerly at our south-eastern and the French stations, and Southerly in Sweden and Denmark, but chiefly South-Westerly elsewhere. Fresh "Mistral" blowing at Toulon.

Sea rough at Scilly, moderate to smooth elsewhere.

Barometer rising generally. Pressure high over Northern Europe and the Bay of Biscay, with a large area of low pressure off the west of Norway, a shallow "trough" over the North Sea, and a well marked depression over the Gulf of Genoa. Depression appearing off the north-west of Scotland later.

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

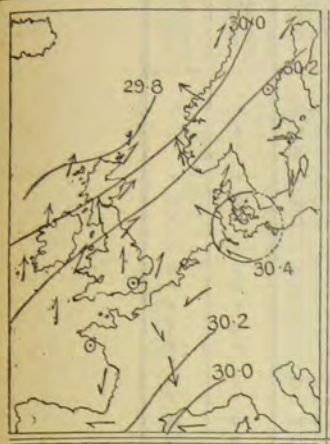
Weather

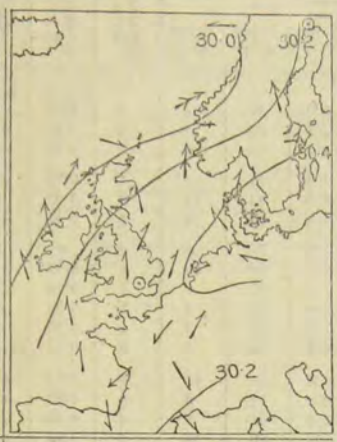
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Saturday, November 7.

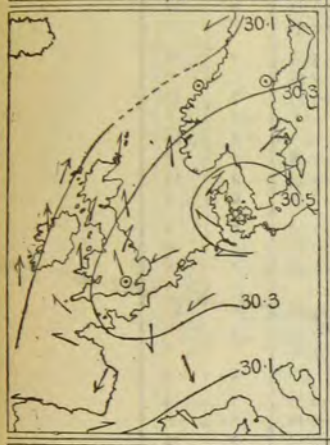
Weather fair on the whole but dull locally, foggy in Denmark and the Netherlands and rainy in the Shetlands and Hebrides.

Temperature risen several degrees over Great Britain; readings ranging from 56° at Nairn to 42° at Dungeness.

Wind Northerly or North-Easterly in France, but Southerly or South-Westerly elsewhere; fresh or strong in force on our western and extreme northern coasts.

Sea rough at Valencia, rather rough at Stornoway, moderate to smooth elsewhere.

Barometer rising at all but our extreme western and northern stations. Long band of high pressure extending from the Bay of Biscay to the south of Sweden, with a shallow depression to the northward of our Islands. Slight fall taking place on our southern coasts later.



Sunday, November 8.

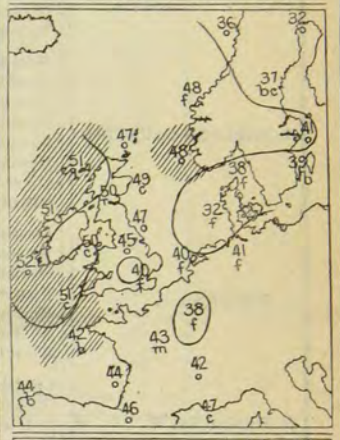
Weather fair generally but foggy in Denmark and the Netherlands, and showery at some of our western stations. Slight drizzling rain in south-east of England later.

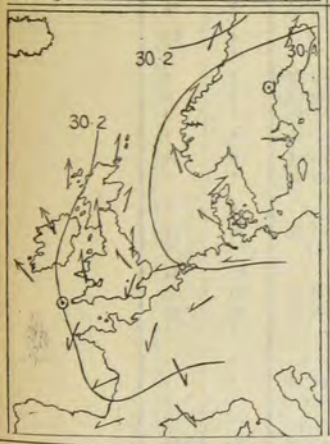
Temperature fallen at all but the Scandinavian and Danish stations; readings ranging from 52° at Wick and Valencia to 37° at Oxford.

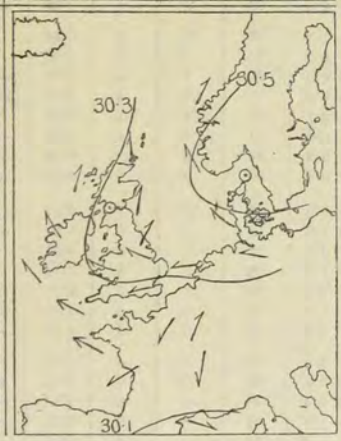
Wind light Easterly at our southern and the French stations and South-Easterly in the west of England, but strong from the Southward in Ireland and the west of Scotland.

Sea rather rough in the west, moderate to smooth elsewhere.

Barometer falling a little over France and our southern coasts, but rising in all other localities. Anticyclone lying over Denmark, the Baltic, and the south of Sweden, and depression moving along our extreme western coasts in a northerly direction. No important change later.







Monday, November 9.

Weather fine at some of the Irish and Scotch stations, but dull elsewhere, with fog or mist in many places. Drizzling rain falling in the south later.

Temperature fallen at all but our south-eastern and the French stations; readings ranging from 51° at Valencia to 36° at Leith.

Wind Easterly or North-Easterly in France and the south of England, but South-Easterly in Ireland, and Southerly in Scotland; fresh or strong in force on our extreme western coasts, but light or moderate elsewhere.

Sea rather rough off the west of Ireland, as well as at Stornoway and Scilly.

Barometer falling a little in the south of our Islands and north of France, but rising elsewhere. Anticyclone lying over Denmark and the south of Scandinavia, with relatively low pressure to the westward and south-westward of the United Kingdom. No important change later.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⟹ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 177 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	53	35	49·4	40·3	44·9	+ 1·9	27	5	5	0·77	−0·21	*	*
	Stornoway	54	32	49·7	40·9	45·3	+ 2·7	28	3	6	1·28	+0·26	7	12
	Wick	58	33	51·7	40·4	46·1	+ 3·7	35	4	1	0·15	−0·55	*	*
1. SCOTLAND, E.	Nairn	61	31	53·3	39·3	46·3	+ 4·5	41	8	2	0·38	−0·16	*	*
	Aberdeen	58	27	51·3	37·6	44·5	+ 2·3	36	12	2	0·09	−0·62	17	30
	Leith	63	33	52·4	40·0	46·2	+ 4·0	38	6	2	0·07	−0·43	*	*
2. ENGLAND, N.E.	Alnwick Castle	59	33	49·4	39·7	44·6	+ 1·9	28	6	0	—	?	*	*
	Durham	58	31	50·8	38·3	44·6	+ 2·2	34	10	1	0·05	−0·65	8	13
	Shields	59	33	49·4	40·9	45·2	+ 1·6	27	3	1	0·03	−0·62	*	*
	Scarborough ℜ	56	34	49·2	42·0	45·6	+ 2·6	25	0	2	0·06	−0·69	*	*
	York	59	31	49·0	40·1	44·6	+ 1·0	26	5	4	0·15	−0·40	3	5
	Spurn Head	53	37	47·4	41·4	44·4	+ 0·2	19	2	3	0·50	?	*	*
3. ENGLAND, E.	Hillington ℜ	51	31	46·6	37·3	42·0	− 2·2	20	13	4	1·34	+0·74	9	14
	Yarmouth	52	39	48·1	41·3	44·7	− 0·2	22	2	5	0·92	+0·20	*	*
	Geldeston	52	35	48·3	38·7	43·5	− 1·5	24	9	4	0·95	+0·34	9	14
	Cambridge	53	32	48·4	37·1	42·8	− 1·2	26	14	4	0·80	+0·32	8	13
	Rothamsted	52	29	48·5	37·3	42·9	− 0·6	26	13	5	0·86	+0·26	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)§	56	31	48·9	40·4	44·7	+ 0·2	26	4	3	0·16	−0·38	6	10
	Loughborough	55	30	48·9	39·6	44·3	+ 1·2	26	7	4	0·32	−0·19	*	*
	Leicester	54	32	49·6	40·7	45·2	+ 2·3	28	4	4	0·62	+0·12	7	11
	Cheadle ℜ	53	32	46·4	38·6	42·5	− 0·1	18	10	6	0·49	?	*	*
	Churchstoke ℜ	58	33	50·5	39·8	45·2	+ 2·6	32	6	3	0·45	?	9	14
	Hereford ℜ	57	35	51·0	40·6	45·8	+ 2·0	32	4	3	0·12	−0·48	*	*
	Cirencester	52	32	47·1	40·6	43·6	+ 0·1	20	6	4	0·96	+0·28	9	14
	Oxford	55	34	48·1	39·3	43·7	0·0	23	8	4	1·11	+0·58	6	9
5. ENGLAND, S.	London†	54	31	50·1	38·6	44·4	− 0·3	31	10	4	0·53	+0·02	3	5
	Marlborough ℜ	52	31	48·3	38·7	43·5	+ 0·3	24	9	6	1·01	+0·31	4	6
	Strathfield Turgiss ℜ	52	30	49·2	36·7	43·0	− 1·5	29	15	5	0·61	+0·01	*	*
	Dungeness	54	32	50·7	39·4	45·1	− 0·9	33	7	3	0·72	?	*	*
	Hastings (St. Leonard's)	52	34	50·1	40·6	45·4	− 0·5	30	4	4	0·55	−0·22	16	25
	Southampton	53	34	50·6	40·4	45·5	− 0·4	31	4	5	0·37	−0·28	4	6
	Hurst Castle	55	38	51·4	42·3	46·9	+ 0·1	34	0	4	0·52	−0·17	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	54	35	50·4	43·0	46·7	+ 3·1	35	0	6	1·95	?	*	*
	Glasgow	57	34	50·7	41·9	46·3	+ 5·3	31	0	3	0·60	−0·28	7	12
	Ardrossan	53	37	49·7	43·1	46·4	+ 3·6	31	0	6	0·62	−0·30	*	*
	Douglas (Isle of Man)	54	35	51·1	44·0	47·6	+ 3·6	39	0	5	0·58	−0·42	9	15
7. ENGLAND, N.W.	Newton Reigny (Penrith)	57	31	49·1	37·5	43·3	+ 1·1	28	13	2	0·34	?	6	10
	Barrow-in-Furness	53	37	48·4	42·4	45·4	+ 0·5	24	0	5	1·12	?	*	*
	Stonyhurst	56	32	49·1	39·4	44·3	+ 0·8	27	7	4	0·77	−0·33	3	5
	Blackpool ℜ	56	34	49·3	41·4	45·4	+ 0·9	26	2	4	0·43	−0·36	5	8
	Manchester	57	33	49·8	39·6	44·7	+ 0·7	29	7	4	0·40	−0·38	*	*
	Liverpool Obsy (Bidston)	59	38	50·0	42·6	46·3	+ 0·9	30	0	4	0·56	−0·09	*	*
	Llandudno ℜ	59	35	51·9	42·0	47·0	+ 0·3	35	0	3	0·48	−0·41	9	15
	Holyhead	54	39	50·4	44·7	47·6	+ 0·4	39	0	5	0·45	−0·43	*	*
8. ENGLAND, S.W.	Llandovery	55	31	50·6	38·6	44·6	− 0·9	32	10	4	0·67	?	*	*
	Pembroke	54	44	51·4	47·4	49·4	+ 1·9	52	0	6	0·30	−0·62	16	25
	Arlington (N. Devon)	53	37	49·4	42·1	45·8	+ 0·8	27	0	5	0·51	?	*	*
	Cullompton ℜ	54	40	50·6	43·4	47·0	+ 1·3	35	0	4	0·46	?	14	22
	Falmouth	54	43	52·4	46·3	49·4	+ 1·3	52	0	7	1·00	−0·24	20	31
	Plymouth	55	40	52·8	44·2	48·5	+ 1·0	46	0	5	0·49	−0·31	13	20
	Prawle Point	55	40	51·6	44·4	48·0	0·0	42	0	5	0·63	?	*	*
9. IRELAND, N.	Malin Head	55	37	51·6	43·4	47·5	+ 3·0	39	0	4	0·84	?	*	*
	Londonderry	58	35	53·0	42·1	47·6	+ 3·8	39	0	4	0·97	+0·01	*	*
	Mullaghmore	57	37	52·7	45·3	49·0	+ 5·0	49	0	4	1·11	?	*	*
	Belmullet	55	40	51·3	46·3	48·8	+ 1·8	48	0	6	1·27	?	*	*
	Markree Castle	56	33	51·0	41·2	46·1	+ 2·7	32	2	5	1·03	+0·18	10	16
	Brookeborough	56	35	50·8	41·9	46·4	+ 3·6	31	0	4	0·59	?	*	*
	Armagh	60	35	51·0	42·4	46·7	+ 3·2	33	0	3	0·29	−0·35	10	16
	Donaghadee	58	34	51·1	40·4	45·8	+ 0·3	33	4	4	0·38	−0·37	*	*
	Edgeworthstown	58	34	51·7	41·9	46·8	+ 3·4	34	0	3	0·41	?	*	*
10. IRELAND, S.	Dublin	62	38	53·2	44·4	48·8	+ 3·8	48	0	4	0·36	−0·24	18	29
	Parsonstown	61	35	52·9	42·4	47·7	+ 3·9	40	0	3	0·49	−0·12	15	24
	Kilkenny	59	36	53·0	43·0	48·0	+ 3·9	42	0	5	0·54	?	*	*
	Waterford	54	39	51·5	44·4	48·0	+ 1·0	42	0	5	0·46	−0·45	*	*
	Roche's Point	57	40	53·3	45·7	49·5	+ 2·0	53	0	6	0·62	−0·37	*	*
	Valencia	56	42	53·3	46·4	49·9	+ 1·4	55	0	6	1·05	−0·19	5	8
	Killarney	58	35	53·7	45·5	49·6	+ 2·6	53	0	4	0·94	?	*	*
	Foynes	61	40	55·4	44·4	49·9	+ 5·3	55	0	5	1·03	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	46	53·6	48·1	50·9	+ 0·4	62	0	5	0·41	−0·49	*	*
	Jersey (Noirmont)	53	40	50·4	44·9	47·7	− 1·1	41	0	4	0·86	−0·06	7	11

Stations marked ℜ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ The Bright Sunshine values given for Bawtry are recorded at Worksop.

Note.—It will be observed that the Reports from Durham have recommenced.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E STANFORD, 55, CHARING CROSS.

VOL. II. No. 46.] *New Series.* WEEK ENDING MONDAY, 16TH NOVEMBER, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 184.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	48	27	43·1	36·3	39·7	2 below.	3	1507	21	628
	1. SCOTLAND, EAST	49	20	44·0	34·1	39·1	4 below.	6	2117	29	674
	2. ENGLAND, N.E.	50	30	44·1	37·8	41·0	1 below.	6	2265	17	495
	3. ENGLAND, EAST	48	26	44·6	38·0	41·3	1 below.	7	2644	16	623
	4. MIDLAND COUNTIES	48	24	43·7	36·3	40·1	2 below.	5	2603	22	640
	5. ENGLAND, SOUTH	52	26	46·5	39·6	43·1	0 (average).	18	2958	7	442
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	51	23	43·8	36·7	40·3	1 below.	5	2067	20	518
	7. ENGLAND, N.W.	51	20	44·2	37·1	40·6	3 below.	18	2277	6	461
	8. ENGLAND, S.W.	53	25	47·6	40·4	44·0	1 below.	21	2660	4	346
	9. IRELAND, NORTH	50	20	45·8	38·2	42·0	1 below.	11	2281	11	412
	10. IRELAND, SOUTH	54	22	48·6	39·6	44·1	1 below.	25	2640	7	356
	— CHANNEL ISLANDS	53	37	48·7	44·1	46·4	2 below.	31	3061	0	106

	DISTRICTS. (See p. 184.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	4	5 less.	218	30·4	5	1184	9	29
	1. SCOTLAND, EAST	2	1	5 less.	163	19·5	8	1371	14	33
	2. ENGLAND, N.E.	3	3	4 less.	161	21·5	5	963	9	23
	3. ENGLAND, EAST	3	3	4 less.	160	24·8	10	1425	17	35
	4. MIDLAND COUNTIES	3	2	4 less.	165	24·4	12	1340	20	33
	5. ENGLAND, SOUTH	3	1	5 less.	151	23·6	13	1436	21	35
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	3	1	8 less.	181	38·7	9	1281	15	31
	7. ENGLAND, N.W.	2	1	7 less.	173	28·6	13	1236 *	21	30
	8. ENGLAND, S.W.	2	1	9 less.	182	34·3	14	1507	23	37
	9. IRELAND, NORTH	2	1	7 less.	191	30·9	15	1184	25	29
	10. IRELAND, SOUTH	3	1	7 less.	185	35·7	15	1423	25	35
	— CHANNEL ISLANDS	2	less than ½	9 less.	195	27·0	22	1817	34	45

General Remarks.

Weather was unusually gloomy during the greater part of the period, with a good deal of mist or fog, and in some places drizzling rain. Towards the end of the week, however, the conditions had undergone a change, and, after a general fall of rain, fine bright weather had become prevalent.

Temperature has been about equal to the mean in "England, S.", but below it in all other districts, the deficit ranging from 1° or 2° in most parts of the Kingdom, to 3° in "England, N.W." and 4° in "Scotland, E." The maxima, which were generally registered on the 13th, varied between 48° and 54°. The minima were recorded on the 16th, when the thermometer fell to 20° in "Scotland, E.", "England, N.W.", and "Ireland, N.", and to between 22° and 30° in all other districts except the "Channel Islands", where the lowest reading was 37°. During the earlier part of the week the diurnal range was extremely small, that at Oxford on the 12th being only half a degree.

Rainfall has been considerably less than the mean in all districts.

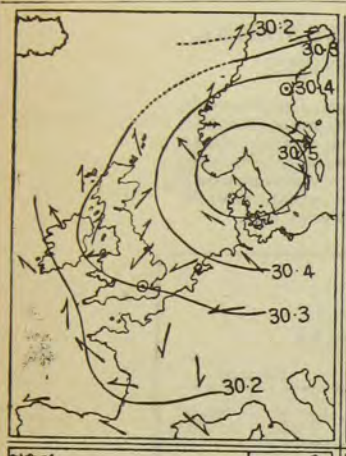
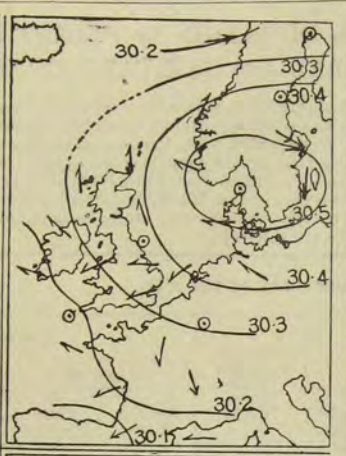
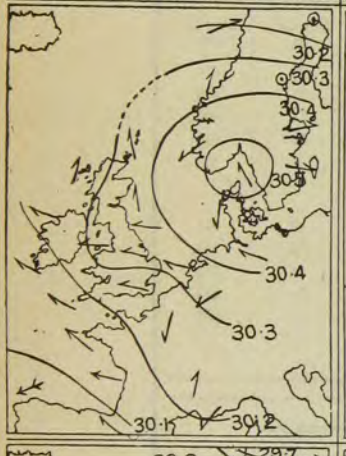
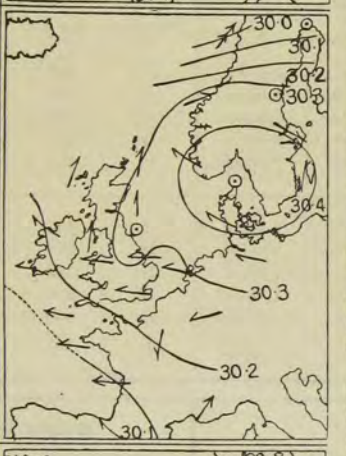
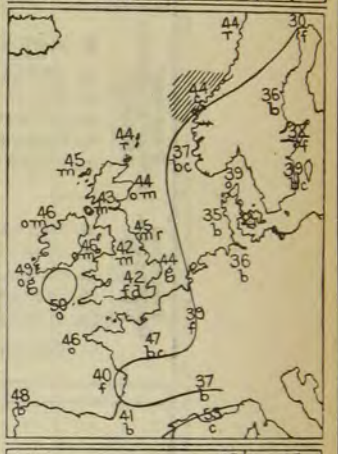
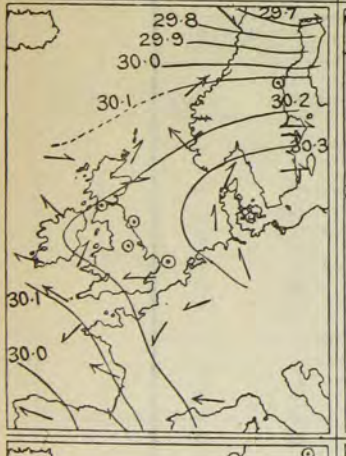
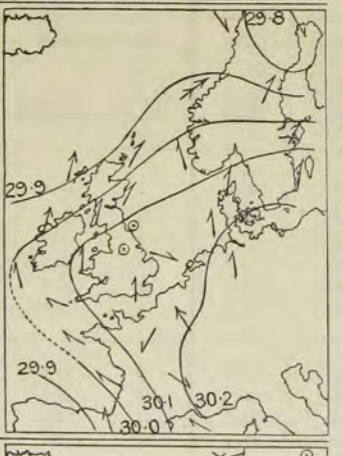
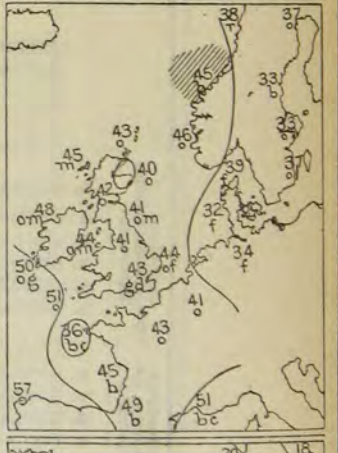
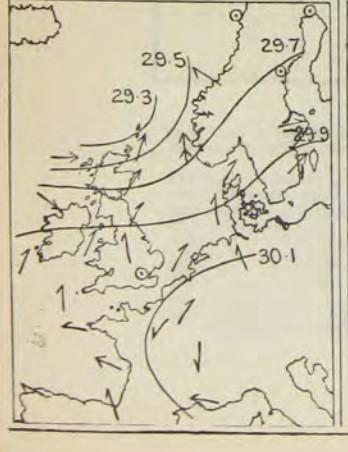
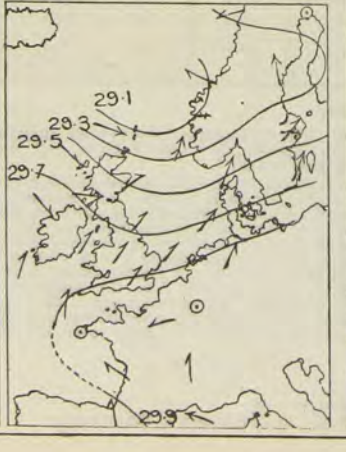
Bright sunshine was altogether absent in most parts of the Kingdom till the period drew towards its close, when a rather high percentage was recorded. The percentage of the possible duration for the week ranged from 9 in "Scotland, N." and "England, N.E." to 25 in Ireland and 34 in the "Channel Islands".

Depressions observed.—The general distribution of pressure during this period was anticyclonic, and the only depression which appeared in our neighbourhood was a rather large one which travelled east-north-eastwards over the northern part of our area during the 13th. Until the approach of this disturbance light Easterly airs were experienced in the south and east, and moderate Southerly breezes in the west and north, but under its influence the wind over our Islands became South-Westerly to Westerly and subsequently moderate from the northward. Owing to the rapid recovery of pressure which took place in the rear of the depression the distribution at the close of the period was again anticyclonic, and on our extreme south-west coasts a moderate to strong Easterly gale prevailed.

* This value has been altered somewhat owing to the receipt of some arrears of observations.

E 19647. 350.—11/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather. During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, November 10.** *Weather* fine at some of our northern stations, but dull and misty elsewhere, with drizzling rain over the eastern and central parts of England. *Temperature* fallen in Scotland; readings ranging from 51° at Valencia to 35° at Nairn. Maxima below 50° in all but our extreme south-west coasts. *Wind* Easterly at our southern and the French stations, but South-Easterly in Ireland and Southerly in Scotland; light or moderate in force generally. *Sea* rather rough at Valencia; moderate to smooth elsewhere. *Barometer* rising in most places. Anticyclone lying over Denmark and the south of Scandinavia, with relatively low readings over Spain and the Bay of Biscay. No important change later.	
		**Wednesday, November 11.** *Weather* fine on the eastern shores of the North Sea and also in the east of France, but dull and misty elsewhere, with slight rain at some of the eastern stations. Sky clearing later in west of France. *Temperature* risen slightly in the west and south, but fallen in the east; readings ranging from 50° at Scilly to 35° at Nairn. Maxima below 45° at some of our eastern and central stations. *Wind* Easterly on our southern and the French coasts, but South-Easterly in Ireland and Southerly in Scotland; light or moderate in force generally. *Sea* moderate in the south-west; slight or smooth elsewhere. *Barometer* falling a little generally. Position of anticyclone scarcely changed, and area of relatively low readings still found over Spain as well as over the north of Scandinavia. No important change later.	
		**Thursday, November 12.** *Weather* fine at some of the Scandinavian and French stations, but dull and misty elsewhere, with drizzling rain in the south-east of England. *Temperature* changed little and irregularly; readings ranging from 51° at Scilly, to 40° at Nairn and Aberdeen. *Wind* light Easterly at our southern and the French stations moderate South-Easterly in Ireland, and light Southerly in Scotland, but moderate to strong Westerly breezes reported over Scandinavia. *Sea* moderate in the south-west, slight or smooth elsewhere. *Barometer* falling at all but the French stations, most in Scandinavia. Anticyclone now lying over Denmark and the Baltic, with large depression over the north of Sweden, and relatively low pressure over Spain. Fall extending to France later.	
		**Friday, November 13.** *Weather* fine at some of the Irish and English stations, but dull elsewhere, with showers in the north and fog or mist in the south. Showers falling later in the west and north generally. *Temperature* risen a few degrees in the north; readings ranging from 50° at Valencia and Scilly to 39° at York. *Wind* fresh or strong from West and South-West in Scotland and Scandinavia, but light from South on our southern coasts, and moderate from East or South-East in France. Subsequently veering to North-West in Scotland. *Sea* rather rough off the north of Scotland. *Barometer* falling generally. Pressure highest over Germany and the east of France with a large and rather deep depression off the north of Scotland. Depression subsequently moving eastwards, and barometer rising in north.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

Weather

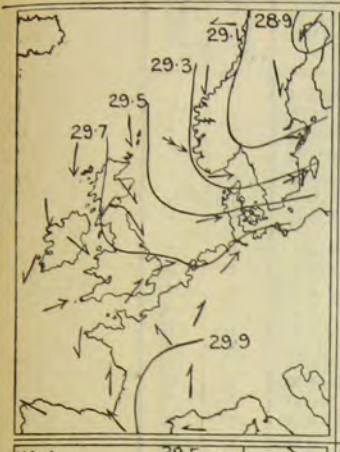
During the 24 hours succeeding

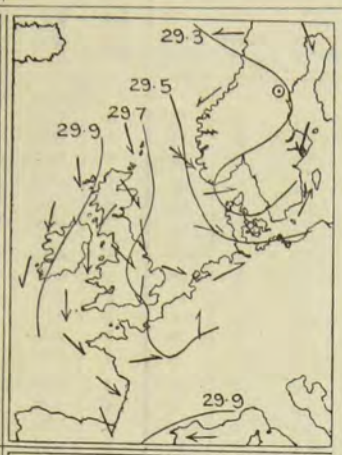
8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Saturday, November 14.

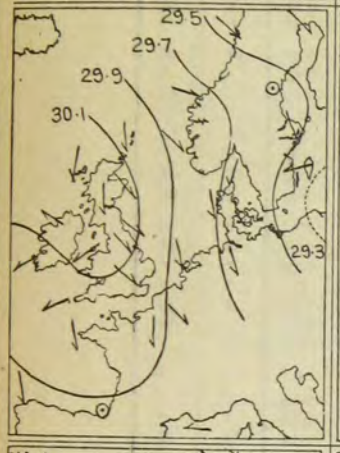
Weather fine at some of the Irish and Scotch stations, but cloudy or overcast elsewhere with rain over central and eastern England. Cold showers falling later on our western and northern coasts.

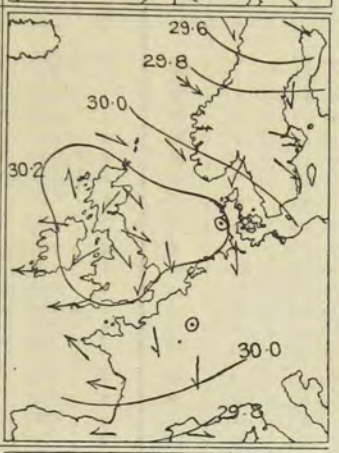
Temperature fallen several degrees in the west and north; readings ranging from 51° at Scilly to 34° at Sumburgh Head. Frost occurring over our Islands at night.

Wind moderate Northerly or North-Westerly on our western and northern coasts but light South-Westerly in the south-east of England and Southerly or South-Easterly in France. Subsequently veering to North-West in the south-east.

Sea rather rough at Wick, moderate to smooth elsewhere.

Barometer falling at all but the Irish and Scotch stations. Depression of previous day now shown over the north of Sweden, but subsidiary disturbances lying over England. Rise taking place in all parts of our Islands later.





Sunday, November 15.

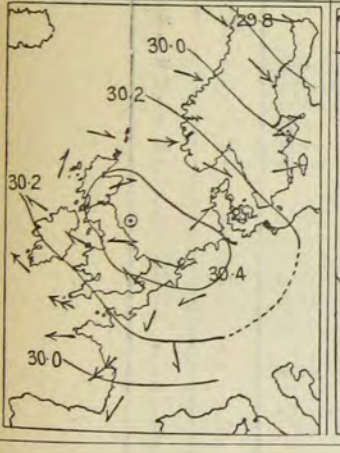
Weather dull in the south of Sweden and north of Scotland, but fine in most other localities; sleet showers falling at Shields and York.

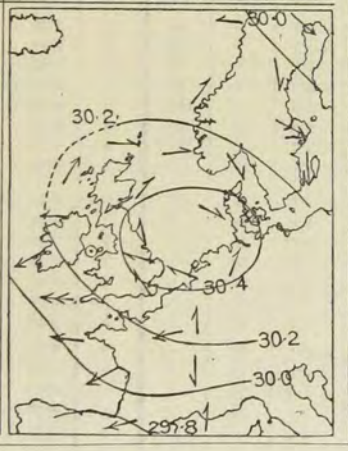
Temperature fallen several degrees generally; readings ranging from 46° at Scilly to 23° at Parsonstown. Maxima below 40° at some of the Scotch stations and sharp frost occurring over Great Britain at night.

Wind light Westerly or North-Westerly on our north and east coasts, but North-Easterly in the south and Easterly in the west. Subsequently shifting to South-East in Ireland.

Sea rather rough off the east of England, moderate to smooth elsewhere.

Barometer rising generally. Anticyclone lying over the greater part of our Islands with depression of previous two days over the Baltic. Anticyclone extending south-eastwards later.





Monday, November 16.

Weather fine at all but our extreme south-western stations, with, however, fog or mist over the eastern and central parts of Great Britain. Fog clearing later.

Temperature risen in the west and south-west, but fallen in the east; readings ranging from 48° at Valencia to 24° at Nairn, Leith, and Loughborough, and 23° at Aberdeen. Sharp frost occurring over Great Britain at night; thermometer at Leith falling to 20°, and that at Aberdeen to 21°.

Wind fresh from West or North-West in Scandinavia, and light from South-West in Scotland, but Easterly or South-Easterly elsewhere; strong to gale at mouth of Channel.

Sea rough off our south-west coasts.

Barometer rising at all stations, excepting Valencia. Anticyclone lying over the North Sea and our east coasts, with relatively low pressures over Spain and the north of Scandinavia. Slight fall taking place at most stations later.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 181 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	47	28	43·6	36·9	40·3	− 1·7	4	19	6	0·41	−0·56	*	*
	Stornoway	48	31	44·3	38·4	41·4	− 0·3	6	15	3	0·49	−0·53	5	9
	Wick	45	27	41·4	33·6	37·5	− 3·8	0	32	2	0·16	−0·54	*	*
1. SCOTLAND, E.	Nairn	48	22	42·7	32·1	37·4	− 5·1	2	35	2	0·06	−0·49	*	*
	Aberdeen	47	20	43·1	35·4	39·3	− 3·7	3	24	3	0·21	−0·52	8	14
	Leith	49	21	46·1	34·9	40·5	− 2·3	11	28	2	0·07	−0·44	*	*
2. ENGLAND, N.E.	Alnwick Castle	47	31	43·0	36·4	39·7	− 1·3	3	20	3	0·24	?	*	*
	Durham	48	30	43·6	35·4	39·5	− 1·5	4	24	4	0·21	−0·56	5	9
	Shields	50	32	44·0	38·3	41·2	− 1·0	6	15	2	0·40	−0·30	*	*
	Scarborough ℔	47	36	44·9	39·7	42·3	+ 0·3	12	6	2	0·34	−0·44	*	*
	York	48	31	44·3	37·4	40·9	− 1·0	6	18	2	0·26	−0·29	5	8
	Spurn Head	46	35	45·0	39·7	42·4	− 0·3	12	6	2	0·23	?	*	*
3. ENGLAND, E.	Hillington ℔	46	27	41·2	37·1	40·7	− 1·6	6	19	3	0·25	−0·36	8	13
	Yarmouth	47	33	44·7	40·6	42·7	− 0·3	11	4	4	0·32	−0·44	*	*
	Geldeston	48	33	45·2	38·8	42·0	− 1·1	9	9	3	0·26	−0·39	12	20
	Cambridge	46	23	44·1	36·4	40·3	− 1·7	6	21	2	0·24	−0·24	11	18
	Rothamsted	46	29	44·6	37·1	40·9	− 0·5	7	19	5	0·19	−0·41	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)§	47	28	43·9	37·4	40·7	− 1·8	5	18	3	0·17	−0·34	12	20
	Loughborough	47	24	44·6	36·9	40·8	− 0·7	7	20	4	0·19	−0·31	*	*
	Leicester	46	26	44·5	36·2	40·4	− 0·7	7	22	2	0·15	−0·35	9	15
	Cheadle ℔	45	29	42·6	34·9	38·8	− 2·1	2	26	4	0·07	?	*	*
	Churchstoke ℔	48	24	43·4	34·0	38·7	− 2·1	4	29	4	0·16	?	11	18
	Hereford ℔	47	24	44·6	35·8	40·2	− 2·0	7	24	2	0·16	−0·40	*	*
	Cirencester	45	29	42·1	37·0	39·6	− 1·7	0	18	5	0·11	−0·52	15	25
	Oxford	46	28	44·0	38·4	41·2	− 0·6	6	14	2	0·17	−0·33	13	21
5. ENGLAND, S.	London†	51	30	47·0	39·4	43·2	+ 0·4	19	7	3	0·18	−0·32	9	15
	Marlborough ℔	47	28	41·5	37·2	40·4	− 0·9	4	18	3	0·13	−0·57	13	21
	Strathfield Turgiss ℔	50	26	45·4	38·0	41·7	− 0·8	10	16	3	0·12	−0·46	*	*
	Dungeness	52	35	48·0	41·4	44·7	+ 0·2	24	2	2	0·13	?	*	*
	Hastings (St. Leonard's)	51	35	46·2	40·7	43·5	− 0·9	16	4	2	0·05	−0·70	16	26
	Southampton	50	32	46·9	39·7	43·3	− 0·5	19	6	2	0·03	−0·57	14	23
	Hurst Castle	51	34	48·7	41·1	44·9	− 0·2	24	3	4	0·07	−0·61	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	49	25	43·4	35·9	39·7	− 2·5	4	23	4	0·25	?	*	*
	Glasgow	47	23	42·5	34·8	38·7	− 1·5	1	26	2	0·19	−0·66	3	5
	Ardrossan	49	28	43·9	37·3	40·6	− 0·7	5	18	3	0·06	−0·84	*	*
	Douglas (Isle of Man)	51	31	45·5	38·8	42·2	− 0·6	15	9	2	0·04	−0·94	15	25
7. ENGLAND, N.W.	Newton Reigny (Penrith)	47	20	41·7	32·4	37·1	− 3·9	0	34	3	0·18	?	12	21
	Barrow-in-Furness	50	31	44·7	38·6	41·7	− 1·8	8	14	2	0·09	?	*	*
	Stonyhurst	47	31	43·8	36·1	40·0	− 1·7	5	22	2	0·32	−0·77	13	22
	Blackpool ℔	48	26	43·9	37·0	40·5	− 3·5	5	19	1	0·09	−0·61	12	20
	Manchester	46	30	43·5	36·1	39·8	− 2·7	4	22	2	0·08	−0·65	*	*
	Liverpool Obsy (Bidston)	48	30	44·0	38·0	41·0	− 2·8	6	15	2	0·13	−0·47	*	*
	Llandudno ℔	50	31	45·2	37·9	41·6	− 3·7	9	17	2	0·14	−0·71	13	22
	Holyhead	51	32	46·4	40·3	43·4	− 2·6	17	5	1	0·03	−0·78	*	*
8. ENGLAND, S.W.	Llandovery	51	25	45·4	34·3	39·9	− 3·5	10	30	2	0·12	?	*	*
	Pembroke	52	36	47·0	42·0	44·5	− 1·0	18	0	2	0·10	−0·80	15	25
	Arlington (N. Devon)	50	32	45·6	39·0	42·3	− 0·7	15	8	2	0·18	?	*	*
	Cullompton ℔	50	30	46·8	39·0	42·9	− 1·1	19	8	1	0·08	?	13	21
	Falmouth	52	38	49·8	44·8	47·3	+ 0·9	37	0	2	0·06	−1·16	15	24
	Plymouth	53	35	49·8	41·8	45·8	− 0·2	27	1	1	0·05	−0·75	13	21
	Prawle Point	52	34	49·0	41·6	45·3	− 0·7	25	1	3	0·16	?	*	*
9. IRELAND, N.	Malin Head	50	33	45·6	40·6	43·1	− 0·1	14	4	3	0·10	?	*	*
	Londonderry	50	27	47·6	36·6	42·1	− 0·6	23	15	2	0·16	−0·80	*	*
	Mullaghmore	49	32	46·1	41·1	43·6	+ 0·4	15	3	1	0·19	?	*	*
	Belmullet	49	34	46·0	41·1	43·6	− 1·3	15	3	3	0·19	?	*	*
	Markree Castle	47	20	45·0	35·5	40·3	− 2·2	8	25	1	0·05	−0·77	15	25
	Brookeborough	47	22	45·3	35·3	40·3	− 1·4	9	26	0	—	?	*	*
	Armagh	48	24	45·3	35·6	40·5	− 2·0	9	25	2	0·06	−0·54	15	25
	Donaghadee	48	37	46·0	40·9	43·5	0·0	15	3	3	0·15	−0·56	*	*
	Edgeworthstown	48	26	45·3	37·4	41·4	− 0·6	9	19	1	0·05	?	*	*
10. IRELAND, S.	Dublin	51	31	46·6	38·8	42·7	− 2·2	18	9	2	0·02	−0·49	14	23
	Parsonstown	50	22	46·6	36·6	41·6	− 0·8	13	22	1	0·09	−0·51	15	25
	Kilkenny	51	25	46·9	38·4	42·7	− 0·3	20	10	2	0·09	?	*	*
	Waterford	50	28	47·2	40·4	43·8	− 1·5	19	4	2	0·09	−0·81	*	*
	Roche's Point	52	31	50·3	42·9	46·6	+ 0·6	32	0	4	0·16	−0·82	*	*
	Valencia	53	33	50·7	42·7	46·7	− 0·7	33	0	3	0·08	−1·12	16	26
	Killarney	52	25	49·7	39·9	44·8	− 0·1	28	6	2	0·08	?	*	*
	Foynes	54	28	50·9	36·9	43·9	+ 0·5	35	14	4	0·16	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	44	50·4	46·7	48·6	− 0·4	46	0	1	0·01	−0·88	*	*
	Jersey (Noirmont)	52	37	46·9	41·4	44·2	− 2·5	18	2	2	0·02	−0·89	22	34

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ The Bright Sunshine values given for Bawtry are recorded at Worksop.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E. STANFORD, 55, CHARING CROSS.

VOL. II. No. 47.] *New Series.* WEEK ENDING MONDAY, 23RD NOVEMBER, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 188.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42°: For the Week.	Above 42°: Since Dec. 30/84.	Below 42°: For the Week.	Below 42°: Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	48	25	41·3	34·9	39·6	1 below.	6	1513	26	654
	1. SCOTLAND, EAST	46	18	41·4	28·2	34·8	5 below.	0	2117	50	724
	2. ENGLAND, N.E.	46	22	43·2	36·0	39·7	1 below.	3	2268	23	518
	3. ENGLAND, EAST	46	24	42·8	34·1	38·5	2 below.	2	2646	29	652
	4. MIDLAND COUNTIES	48	22	41·7	32·1	36·9	3 below.	0	2603	36	676
	5. ENGLAND, SOUTH	50	28	44·6	36·0	40·3	2 below.	7	2965	23	465
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	51	19	42·3	34·6	38·5	2 below.	1	2068	26	544
	7. ENGLAND, N.W.	48	23	42·5	34·1	38·3	4 below.	1	2281 *	28	486 *
	8. ENGLAND, S.W.	53	29	46·2	39·0	42·6	1 below.	17	2677	8	354
	9. IRELAND, NORTH	51	26	45·4	35·2	40·8	1 below.	10	2291	23	465
	10. IRELAND, SOUTH †	54	27	48·3	40·2	44·4	0 (average).	23	2663	5	361
	— CHANNEL ISLANDS	57	31	50·3	43·3	46·8	0 (average).	34	3095	0	106

	DISTRICTS. (See p. 188.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	1	8 less.	219	30·5	5	1189	10	28
	1. SCOTLAND, EAST	3	1	5 less.	166	19·6	12	1383	24	33
	2. ENGLAND, N.E.	2	1	6 less.	163	21·6	7	970	12	23
	3. ENGLAND, EAST	2	1	5 less.	162	24·9	23	1448	40	35
	4. MIDLAND COUNTIES	3	2	4 less.	168	24·6	12	1352	21	33
	5. ENGLAND, SOUTH	2	1	5 less.	153	23·7	10	1446	16	35
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	1	1	9 less.	182	38·8	10	1291	17	31
	7. ENGLAND, N.W.	1	1	7 less.	174	28·7	13	1249 *	23	30
	8. ENGLAND, S.W.	3	4	6 less.	185	34·7	8	1515	13	37
	9. IRELAND, NORTH	3	3	5 less.	194	31·2	15	1199	26	29
	10. IRELAND, SOUTH †	4	5	3 less.	189	36·2	12	1435	21	35
	— CHANNEL ISLANDS	4	4	5 less.	199	27·4	9	1826	15	44

General Remarks.

Weather has been cloudy or dull, with a good deal of mist, haze, and fog. Scarcely any rain fell till the end of the period, when it began to fall rather generally.

Temperature has equalled the mean in "Ireland, S." and the "Channel Islands", but in all other districts a deficit ranging from 1° in "Scotland, N.", "England, N.E.", "England, S.W.", and "Ireland, N.", to 3° in the "Midland Counties", 4° in "England, N.W." and 5° in "Scotland, E." The maxima, which were recorded on different days in the various districts, ranged from 46° in the north-eastern parts of the Kingdom, to 54° in "Ireland, S." and 57° in the "Channel Islands". The minima, which were registered in most places on the 18th, were rather low; in "Scotland, E." the thermometer fell to 18°, in "Scotland, W." to 19°, and in most of the English districts to between 22° and 24°, while in the south and south-west it descended to between 28° and 31°.

Rainfall has been less than the mean in all districts. Over Great Britain the fall has been very slight.

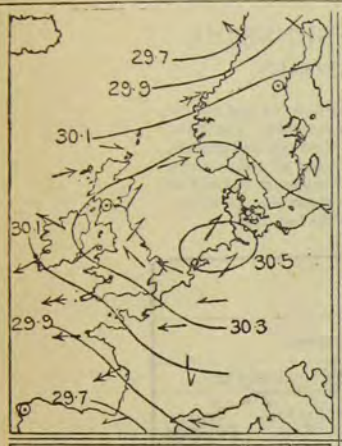
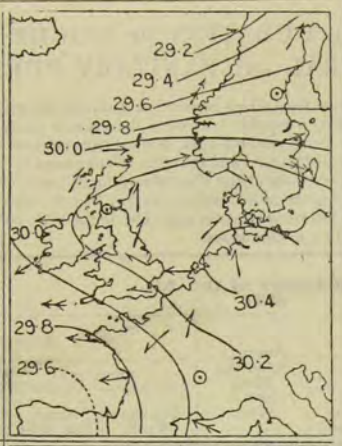
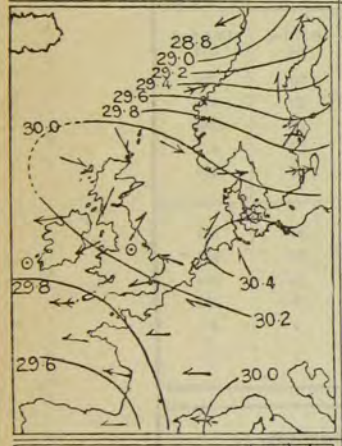
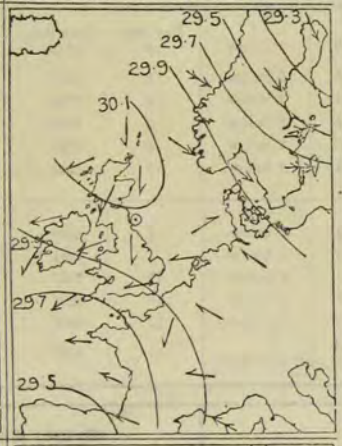
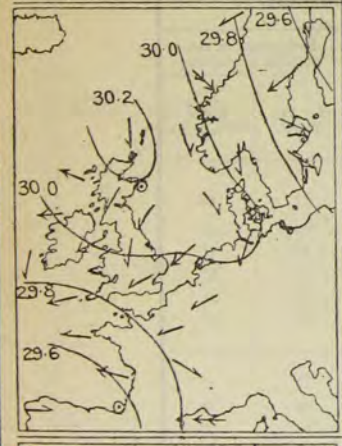
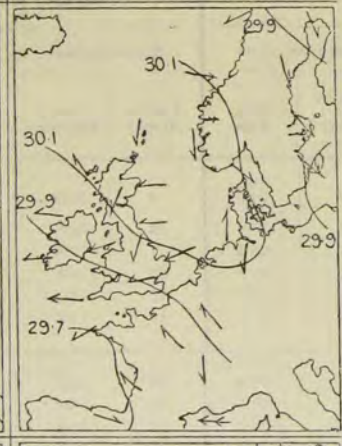
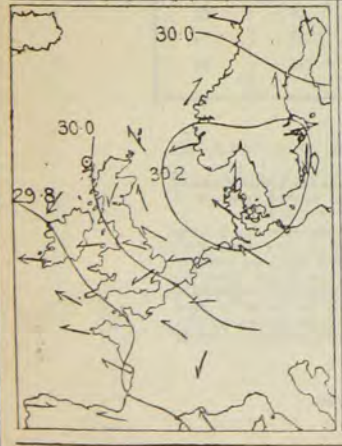
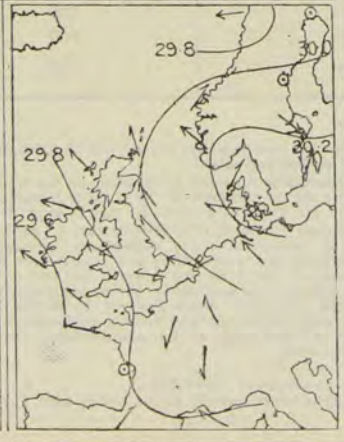
Bright sunshine does not differ much on the whole from that reported last week; the percentages of the possible duration ranged from 10 in "Scotland, N." to 26 in "Ireland, N." and to 40 in "England, E."

Depressions observed.—The distribution of pressure over our Islands was mainly anticyclonic. No depressions appeared in our immediate neighbourhood, but a very deep one passed over the northern parts of Scandinavia on the 18th, and towards the end of the period some low pressure systems were also shown to the south-westward and westward of the United Kingdom. South-Easterly to Southerly winds were most prevalent over our Islands, and though moderate or light generally, they increased to a fresh gale on our south-western coasts during the earlier part of the week.

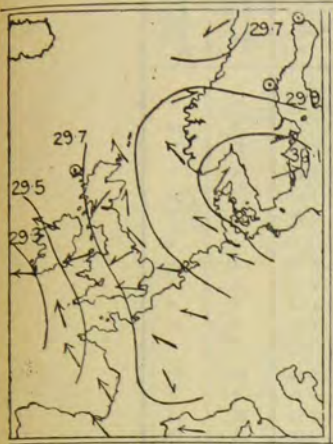
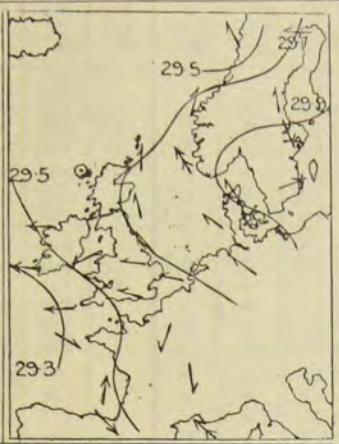
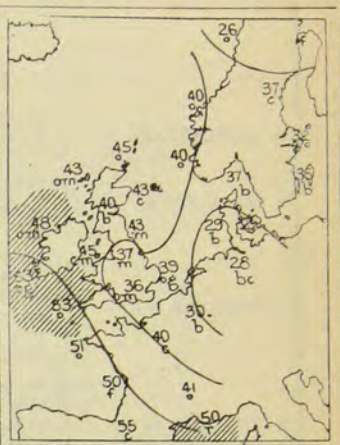
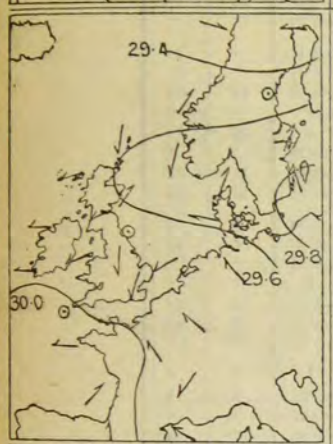
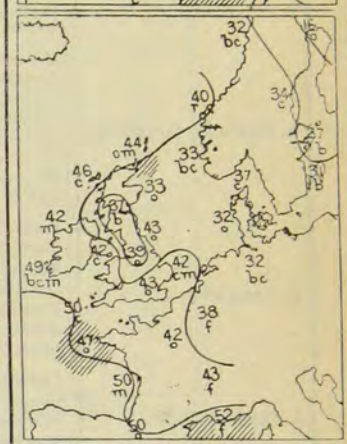
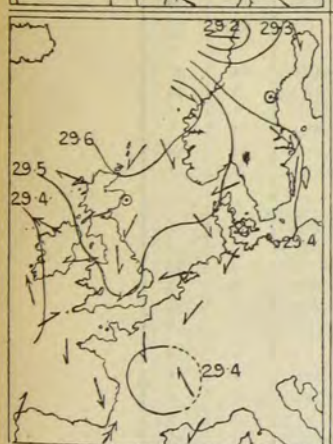
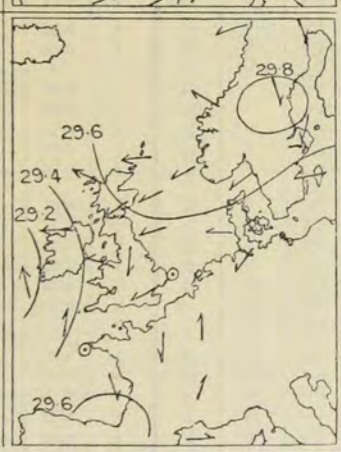
* These values have been altered somewhat owing to the receipt of some arrears of observations.
† The accumulated values for this district are liable to alteration owing to the non-arrival of the Return from Foynes.

B 19771. 350.—11/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, November 17.** *Weather* fine in most parts of our Islands, but rainy in the south of France. Rain or snow falling later at many of the Scandinavian stations. *Temperature* risen in Norway, Denmark, and Scotland, but fallen elsewhere; readings ranging from 47° at Scilly to 22° at Leith and Loughborough. Sharp frost occurring at night in many places; minimum thermometer at Aberdeen and Leith falling to 18°. *Wind* strong Westerly in Norway and moderate South-Westerly in Scotland, but Easterly or South-Easterly elsewhere; strong to a gale in the western part of the Channel. South-Westerly gale in west of Norway later. *Sea* rough on our south-west and south-east coasts, and rather rough at Stornoway. *Barometer* falling at all but the Danish stations. Anticyclone lying over North Germany and the Netherlands, with depressions off the north-west of Norway and south-west of France. Rapid fall taking place in Scandinavia later.	
		**Wednesday, November 18.** *Weather* dull in the extreme north and also at our south-western and the French stations, but fine elsewhere. Rain falling later in the south-west of our Islands and snow in Scandinavia. *Temperature* risen quickly in France, but fallen elsewhere; readings ranging from 50° at Scilly to 21° at Aberdeen. Brisk rise taking place in Scotland later. *Wind* strong to a gale from West in Norway and the south of Sweden, but light South-Westerly in Scotland and Easterly over England, Ireland, and France; slight gale at mouth of Channel. *Sea* rough in the western part of the Channel, rather rough at Yarmouth, moderate to smooth elsewhere. *Barometer* falling generally—rapidly in Scandinavia. Area of high pressure lying over Scotland and the North Sea, with deep depression off the north-west of Norway and area of relatively low readings over the Bay of Biscay. Norwegian depression moving eastwards later, and barometer rising in north.	
		**Thursday, November 19.** *Weather* dull in France and the south of our Islands as well as in the extreme north, but fine in most other localities. Rain falling later at some of our western and northern stations. *Temperature* risen in most parts of our Islands; readings ranging from 48° at Scilly to 30° at Cambridge. *Wind* North-Westerly in Scandinavia and Denmark, but Easterly over the greater part of our Islands and France; strong in force at the mouth of the Channel, but moderate or fresh elsewhere. Subsequently veering to South-East in the extreme west. *Sea* rough in the Channel and also off the east of England, moderate to smooth elsewhere. *Barometer* rising in Scandinavia and Scotland, but falling slightly over England, Ireland, and France. Anticyclone lying off our northern coasts, with relatively low pressure over the Gulf of Bothnia and Bay of Biscay. Slight rise taking place in England later.	
		**Friday, November 20.** *Weather* fine in Sweden, Denmark, the Netherlands, and some parts of Scotland, but cloudy or overcast elsewhere, with rain at Roche's Point, and passing showers at Aberdeen. Rain falling later at most of the Irish stations. *Temperature* risen over England, Ireland, and France, but fallen elsewhere; readings ranging from 52° at Scilly to 29° at Stornoway. Frost occurring over central England at night. *Wind* Easterly in the south of England, but South-Easterly or Southerly elsewhere; moderate or fresh in force in most places. Subsequently increasing to strong breeze in west of Ireland. *Sea* rough off the east of England, rather rough at Scilly, moderate to smooth elsewhere. *Barometer* rising on all but our western and northern coasts. Anticyclone lying over Denmark and the south of Scandinavia, with relatively low pressures over the north of Sweden and the south-west of our Islands. Fall taking place generally later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, November 21.** *Weather* fair at some of our eastern and south-eastern as well as at the Continental stations, but cloudy or overcast elsewhere. Rain falling later on several parts of our south-west coasts. *Temperature* risen slightly generally; readings ranging from 53° at Valencia and Scilly to 36° at Oxford and in London. *Wind* Westerly in the south of Sweden, but South-Easterly or Southerly elsewhere; strong in force on our south-west coasts. *Sea* rather rough on our south-west coasts, as well as at Yarmouth; moderate to smooth elsewhere. *Barometer* falling generally. Anticyclone, with readings above 30·2 ins., lying over Baltic and area of low pressure to the south-westward of our Islands. Slight rise taking place in Ireland later.	
		**Sunday, November 22.** *Weather* fine in Sweden and also at some of our western stations, but dull and misty elsewhere. Drizzling rain falling later in many parts of England. *Temperature* fallen a little in the west and north; readings renging from 50° at Scilly to 33° at Wick and Aberdeen. Frost occurring in Scotland at night. *Wind* moderate Westerly in the north of Scandinavia and Southerly in the south of France, but light Easterly elsewhere. *Sea* rough at Wick but moderate to smooth on all other parts of our coasts. *Barometer* falling at all but our western stations. Pressure still highest over the Baltic and lowest to the south-westward of our Islands, but intervening gradients slight.	
		**Monday, November 23.** *Weather* fine at some of the Scandinavian stations, but cloudy or overcast elsewhere, with rain in Ireland. *Temperature* risen a little at all but our southern stations; readings ranging from 50° at Roche's Point, to 34° at Barrow-in-Furness. *Wind* moderate Northerly in the west of France, and light North-Easterly over England, but fresh South-Easterly in the west of Ireland. *Sea* rather rough in the south-west, moderate to smooth elsewhere. *Barometer* rising at our extreme northern as well as at our southern and the French stations, but rising elsewhere. Pressure highest to the northward of our Islands, with areas of low readings over France, the north of Norway, and our extreme western coasts. Brisk rise taking place over Scandinavia later.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛⟶ = a heavy gale; ➢⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 185 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	47	32	43·7	36·6	40·2	− 1·1	5	26	1	0·23	−0·74	*	*
	Stornoway	48	28	45·4	35·1	40·3	− 0·7	10	27	1	0·02	−1·02	5	10
	Wick	48	25	43·7	33·0	38·4	− 2·1	5	33	1	0·04	−0·69	*	*
1. SCOTLAND, E.	Nairn	43	22	40·3	26·4	33·3	− 6·4	0	61	2	0·06	−0·49	*	*
	Aberdeen	46	18	41·9	28·1	35·0	− 4·7	0	49	4	0·20	−0·55	12	23
	Leith	46	18	42·0	30·1	36·1	− 3·9	0	41	2	0·02	−0·48	*	*
2. ENGLAND, N.E.	Alnwick Castle	44	23	42·3	35·0	38·7	− 1·3	1	25	2	0·24	?	*	*
	Durham	43	22	41·3	32·4	36·9	− 3·1	0	36	3	0·22	−0·56	6	11
	Shields	45	26	44·3	34·9	39·6	− 1·5	6	26	2	0·11	−0·59	*	*
	Scarborough ℔	45	39	44·0	40·6	42·3	+ 1·4	8	4	2	0·14	−0·64	*	*
	York	44	24	43·1	32·4	37·8	− 2·7	3	35	2	0·06	−0·47	7	13
	Spurn Head	46	40	44·4	40·9	42·7	+ 1·5	10	3	1	0·02	?	*	*
3. ENGLAND, E.	Hillington ℔	45	26	42·4	32·5	37·5	− 3·2	1	34	0	—	−0·62	22	39
	Yarmouth	44	37	43·0	38·4	40·7	− 0·8	3	13	1	0·09	−0·68	*	*
	Geldeston	45	32	42·7	36·2	39·5	− 2·0	2	21	1	0·06	−0·59	26	44
	Cambridge	45	24	43·1	29·4	36·3	− 4·2	3	45	2	0·04	−0·41	22	37
	Rothamsted	46	28	42·8	33·9	38·4	− 1·6	2	29	5	0·21	−0·39	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)§	44	23	41·9	30·6	36·3	− 4·9	0	40	3	0·04	−0·47	9	16
	Loughborough	48	22	43·1	29·7	36·4	− 3·8	3	44	2	0·08	−0·44	*	*
	Leicester	47	28	42·8	33·1	38·0	− 1·7	2	32	3	0·17	−0·32	16	28
	Cheadle ℔	44	30	40·5	33·6	37·1	− 2·6	0	34	2	0·14	?	*	*
	Churchstoke ℔	42	23	39·9	32·2	36·1	− 3·7	0	41	3	0·32	?	11	19
	Hereford ℔	44	28	41·5	32·9	37·2	− 3·5	0	34	3	0·30	−0·25	*	*
	Cirencester	45	28	40·9	33·0	37·0	− 3·0	0	35	2	0·16	−0·45	13	22
	Oxford	46	26	42·7	31·6	37·2	− 3·6	2	37	5	0·18	−0·31	13	22
5. ENGLAND, S.	London†	48	32	44·9	35·3	40·1	− 1·4	8	25	1	0·05	−0·44	6	10
	Marlborough ℔	45	29	40·7	33·8	37·3	− 2·9	0	33	2	0·11	−0·59	8	13
	Strathfield Turgiss ℔	43	28	43·8	32·9	38·4	− 2·6	5	33	2	0·30	−0·25	*	*
	Dungeness	49	34	46·4	37·4	41·9	− 1·3	12	19	1	0·17	?	*	*
	Hastings (St. Leonard's)	49	32	44·3	37·9	41·1	− 2·4	6	16	2	0·10	−0·65	12	20
	Southampton	48	30	45·3	35·8	40·6	− 1·7	9	24	2	0·15	−0·46	12	20
	Hurst Castle	50	36	46·6	38·9	42·8	− 1·2	19	9	3	0·07	−0·62	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	51	25	43·7	33·8	38·8	− 2·3	5	30	0	—	?	*	*
	Glasgow	43	19	40·3	31·7	36·0	− 3·8	0	42	0	—	−0·85	2	4
	Ardrossan	42	26	41·1	33·9	37·5	− 2·7	0	32	1	0·04	−0·86	*	*
	Douglas (Isle of Man)	45	35	44·2	39·1	41·7	− 0·4	6	12	1	0·17	−0·83	17	30
7. ENGLAND, N.W.	Newton Reigny (Penrith)	45	23	40·8	27·0	33·9	− 6·1	0	57	2	0·04	?	16	29
	Barrow-in-Furness	44	32	42·9	34·3	38·6	− 4·2	3	28	2	0·06	?	*	*
	Stonyhurst	43	30	42·0	34·8	38·4	− 2·1	0	25	0	—	−1·09	13	23
	Blackpool ℔	45	27	41·9	32·2	37·1	− 5·9	0	34	1	0·06	−0·64	8	14
	Manchester	43	32	41·9	35·0	38·5	− 2·9	0	25	2	0·02	−0·72	*	*
	Liverpool Obsy (Bidston)	44	31	42·0	34·9	38·5	− 4·0	0	25	2	0·19	−0·41	*	*
	Llandudno ℔	46	32	43·5	36·3	39·9	− 4·1	4	21	1	0·28	−0·57	14	25
	Holyhead	48	33	41·9	38·3	41·6	− 3·6	8	15	1	0·23	−0·62	*	*
8. ENGLAND, S.W.	Llandovery	46	29	43·0	35·3	39·2	− 2·7	3	25	1	0·21	?	*	*
	Pembroke	46	34	44·6	38·6	41·6	− 2·8	7	14	2	0·18	−0·74	9	15
	Arlington (N. Devon)	49	30	45·3	36·0	40·7	− 1·3	9	24	2	0·39	?	*	*
	Cullompton ℔	49	30	44·3	35·9	40·1	− 2·9	6	23	3	0·42	?	9	15
	Falmouth	53	43	49·6	45·3	47·5	+ 2·2	39	0	4	0·69	−0·53	0	0
	Plymouth	52	37	48·7	41·1	44·9	+ 0·2	24	3	3	0·43	−0·37	6	10
	Prawle Point	51	35	48·0	40·7	44·4	− 0·3	22	4	6	0·28	?	*	*
9. IRELAND, N.	Malin Head	48	34	45·4	37·6	41·5	− 0·5	10	18	2	0·21	?	*	*
	Londonderry	49	26	45·5	32·8	39·2	− 2·7	10	35	3	0·28	−0·69	*	*
	Mullaghmore	49	36	46·1	39·4	42·8	0·0	17	7	4	0·40	?	*	*
	Belmullet	49	32	45·6	36·3	41·0	− 4·0	10	23	4	0·77	?	*	*
	Markree Castle	51	28	45·2	34·3	39·8	− 2·0	9	30	4	0·18	−0·62	14	25
	Brookeborough	49	30	44·9	35·1	40·0	− 0·9	8	26	1	0·43	?	*	*
	Armagh	47	28	44·7	33·6	39·2	− 2·4	8	32	4	0·34	−0·26	15	27
	Donaghadee	48	40	45·4	41·1	43·3	+ 0·8	13	3	1	0·08	−0·62	*	*
	Edgeworthstown	49	27	45·4	35·7	40·6	− 0·6	10	25	2	0·15	?	*	*
10. IRELAND, S.	Dublin	51	37	47·1	41·8	44·5	+ 1·5	18	1	3	0·45	−0·05	11	19
	Parsonstown	50	29	46·7	36·7	41·7	+ 0·2	13	22	2	0·20	−0·40	14	25
	Kilkenny	50	31	47·3	39·2	43·3	+ 1·4	21	8	2	0·12	?	*	*
	Waterford	49	35	46·9	39·4	43·2	− 0·8	19	7	4	0·33	−0·37	*	*
	Roche's Point	53	34	50·0	41·0	45·5	+ 0·7	29	3	6	0·35	−0·65	*	*
	Valencia	54	32	51·6	42·4	47·0	+ 0·3	35	0	5	1·23	+0·03	11	19
	Killarney	53	27	48·2	40·7	44·5	− 0·5	23	4	4	0·80	?	*	*
	Foynes											?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	45	52·9	46·3	49·6	+ 1·6	53	0	4	0·70	−0·18	*	*
	Jersey (Noirmont)	52	31	47·7	40·3	44·0	− 1·4	21	5	4	0·17	−0·73	9	15

Stations marked ℔ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ The Bright Sunshine values given for Bawtry are recorded at Worksop.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E STANFORD, 55, CHARING CROSS.

VOL. II. No. 48.] *New Series.* WEEK ENDING MONDAY, 30TH NOVEMBER, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 192.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	34	44·4	37·1	40·8	0 (average).	7	1520	19	673
	1. SCOTLAND, EAST	52	31	45·5	36·6	41·1	2 above.	10	2127	22	746
	2. ENGLAND, N.E.	56	32	48·5	39·6	44·1	4 above.	25	2293	7	525
	3. ENGLAND, EAST	59	33	51·3	40·7	46·0	6 above.	33	2679	4	656
	4. MIDLAND COUNTIES	58	35	50·5	40·1	45·3	6 above.	31	2634	5	681
	5. ENGLAND, SOUTH	59	36	52·8	43·3	48·1	7 above.	43	3008	0	465
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	53	36	46·9	40·1	43·5	3 above.	18	2086	5	549
	7. ENGLAND, N.W.	57	30	48·7	39·7	44·2	3 above.	25	2306	6	492
	8. ENGLAND, S.W.	59	32	53·8	44·9	49·4	6 above.	52	2729	0	354
	9. IRELAND, NORTH	56	31	48·6	40·1	44·3	3 above.	24	2315	5	470
	10. IRELAND, SOUTH *	59	33	52·8	42·2	47·5	5 above.	39	2702	0	361
	— CHANNEL ISLANDS	59	45	54·6	48·9	51·8	6 above.	69	3164	0	106

	DISTRICTS. (See p. 192.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	5	4 less.	224	31·0	14	1203	29	29
	1. SCOTLAND, EAST	5	8	3 more.	171	20·4	6	1389	12	33
	2. ENGLAND, N.E.	6	12	5 more.	169	22·8	5	975	10	23
	3. ENGLAND, EAST	7	16	10 more.	169	26·5	2	1450	4	35
	4. MIDLAND COUNTIES	7	21	15 more.	175	26·7	3	1355	5	32
	5. ENGLAND, SOUTH	7	24	17 more.	160	26·1	2	1448	3	35
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	5	13	3 more.	187	40·1	6	1297	11	31
	7. ENGLAND, N.W.	5	16	8 more.	179	30·3	5	1254	9	30
	8. ENGLAND, S.W.	7	29	19 more.	192	37·6	4	1519	7	36
	9. IRELAND, NORTH	5	9	2 more.	199	32·1	10	1209	19	29
	10. IRELAND, SOUTH *	7	20	12 more.	196	38·2	9	1444	17	34
	— CHANNEL ISLANDS	7	25	16 more.	206	29·9	2	1828	3	44

General Remarks.

Weather has been dull, with frequent and heavy falls of rain in England and the south of Ireland, but has been somewhat finer in Scotland and the north of Ireland.

Temperature has been about equal to the mean in "Scotland, N.", but above it elsewhere; in eastern, central, southern, and south-western England the excess has been as much as 6° or 7°. The maxima, which were generally registered on the 29th, ranged from 49° to 53° in Scotland, and from 56° to 59° in England and Ireland. The minima, which were recorded on different days in the various districts, ranged from 30° in "England, N.W." to 36° in "England, S." and "Scotland, W.", and to 45° in the "Channel Islands".

Rainfall has been less than the mean in "Scotland, N.", but more in all other parts of the Kingdom. In most of the English districts, in the south of Ireland, and over the English Channel the excess has been very large.

Bright sunshine has been very deficient in nearly all places, the percentages of the possible duration varying between 3 and 12 in most districts, to 19 in "Ireland, N." and 29 in "Scotland, N."

Depressions observed.—Three depressions appeared within our area during this period. The first was shown off the south of Ireland on the 24th, but it remained almost stationary until the night of the 25th-26th, when, having grown deeper, it travelled northwards outside our western coasts. The second moved quickly in a north-easterly direction over our Islands on the 28th, disappearing over the south of Scandinavia on the following day. The third moved with rather unusual rapidity north-north-eastwards outside our western and north-western coasts on the 29th, and disappeared to the northward of Norway. Very strong gales from between East and South-East were experienced on our northern coasts on the 26th and 27th, and strong winds or gales, at first from East and afterwards from the South-Westward, in most other parts of the Kingdom. During the remainder of the period the wind was generally South-Westerly to Westerly, and at times increased to a strong breeze or gale.

* The accumulated values for this district are liable to alteration owing to the non-arrival of the Returns from Waterford and Foynes.

E 19844. 350.—12/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

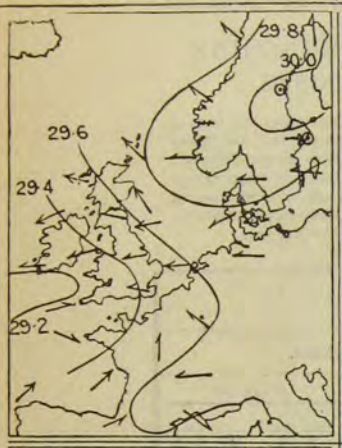
Weather

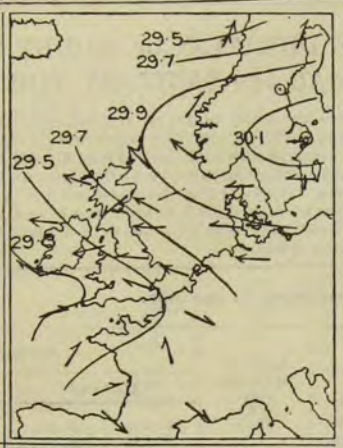
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Tuesday, November 24.

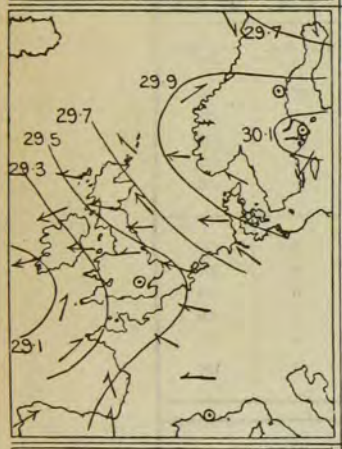
Weather rainy over England and some parts of Ireland and Scotland, but fine in Scandinavia, the extreme north of our Islands, and the south-east of France.

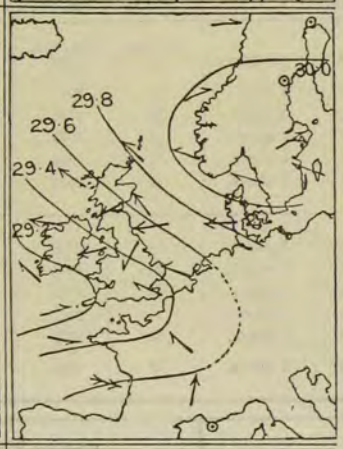
Temperature risen a little in the south of England, but fallen elsewhere; readings ranging from 51° at Scilly to 33° at Nairn. Maxima rather low generally.

Wind moderate South-Westerly in the south-west of England and west of France, but South-Easterly or Easterly elsewhere; strong in force at some of our northern stations.

Sea high at Aberdeen and rather rough on our northern coasts generally as well as at Malin Head and Yarmouth.

Barometer falling on our western and southern coasts, but rising elsewhere. Anticyclone lying over Scandinavia, with area of low pressure over the south-west of our Islands. Rise taking place in west and south later.





Wednesday, November 25.

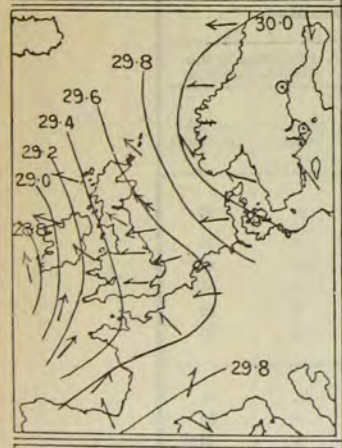
Weather fair in Sweden and Denmark, but cloudy or overcast elsewhere, with rain at many of the English and Irish stations, and fog in the south-east.

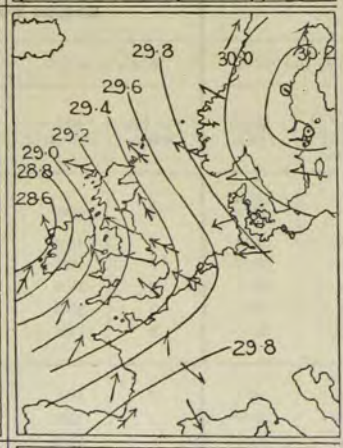
Temperature risen a little in most places; readings ranging from 53° at Scilly to 39° in the Shetlands.

Wind Sontherly or South-Westerly at our extreme southern and the French stations, but South-Easterly or Easterly elsewhere; strong in force on our west, north, and east coasts. Subsequently increasing to fresh gale in north of Scotland.

Sea high off the north and north-east of Scotland, rough on the east coast of England, and rather rough on our western coasts.

Barometer falling generally—most in west. Anticyclone lying over south of Scandinavia, with well-marked depression off our south-west coasts. Slight rise taking place in south-west later.





Thursday, November 26.

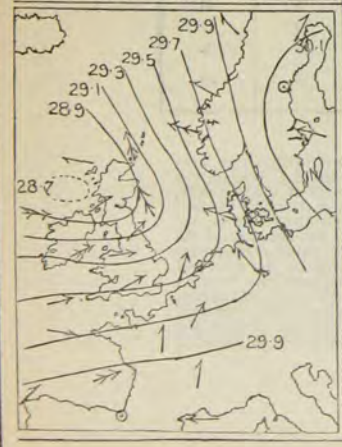
Weather fine at some of the Scandinavian and Danish stations, bnt dull and misty elsewhere, with rain in many places. Some improvement taking place in west of England later.

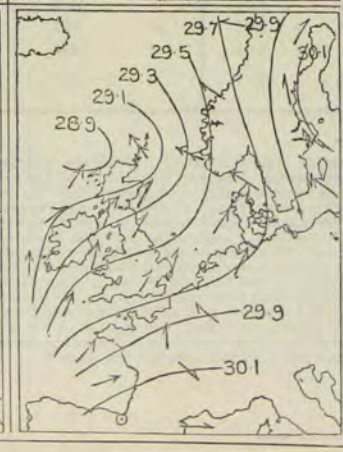
Temperature risen slightly; readings ranging from 55° at Scilly to 37° in the Shetlands.

Wind Southerly on our southern and the French coasts, but South-Easterly or Easterly elsewhere; strong to a gale in Ireland and Scotland. Subsequently increasing to fresh gale in east of England, but veering to South-West at some of our south-western stations.

Sea very high off the north and east of Scotland, and rough on most other parts of our coasts.

Barometer falling quickly in the west and north of our Islands, but rising elsewhere. Anticyclone still lying over Sweden, and deep depression appearing off the south-west of Ireland. Depression moving slowly northwards later, and slight rise taking place in extreme south-west.





Friday, November 27.

Weather dull and rainy in Scotland and the south of Ireland, and showery in most other localities. Sky clearing in north and east later. Meteoric display seen in many places at night.

Temperature fallen in the west and south, but risen elsewhere; readings ranging from 52° at Scilly to 39° at Sumburgh Head. Maxima higher than of late.

Wind South-Easterly in Scotland and also on the eastern shores of the North Sea, but South-Westerly or Westerly elsewhere; strong in force in most places, with gales on our north and north-west coasts. Subsequently veering to South-West in Scotland and moderating.

Sea tremendously high off the north and east of Scotland, and rough on nearly all parts of our coasts.

Barometer rising at our western, southern, and the French stations, but falling elsewhere. Pressure still highest over Sweden, but relatively high in the south of France. Depression of previous day passing away to the north of Scotland. Brisk fall setting in on our west coasts later, and new depression approaching Ireland.

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

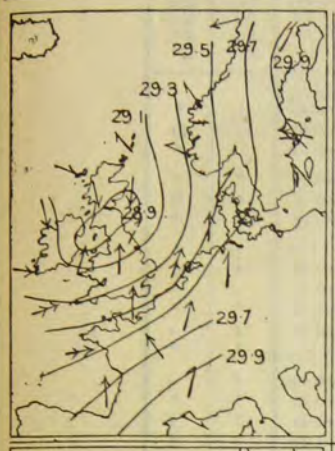
Weather

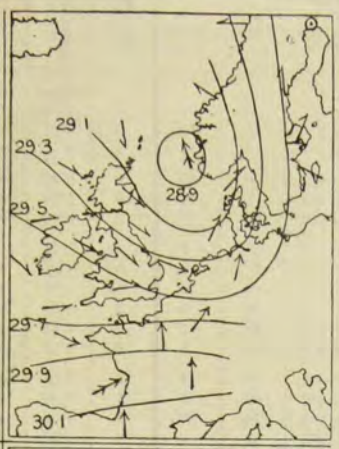
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Saturday, November 28.

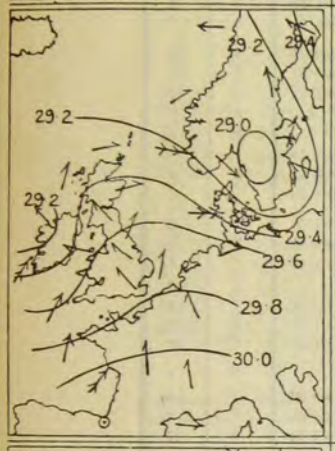
Weather cloudy or overcast in most places, with rain over Great Britain, the Netherlands, and the north of France. Sky clearing later in all parts of the Kingdom.

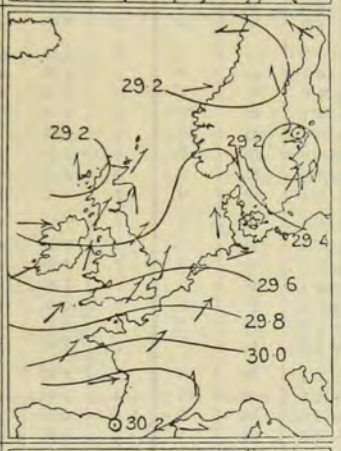
Temperature risen a little in the west and south but fallen in the north and east; readings ranging from 55° at Scilly to 36° at Stornoway. Maxima high over central England.

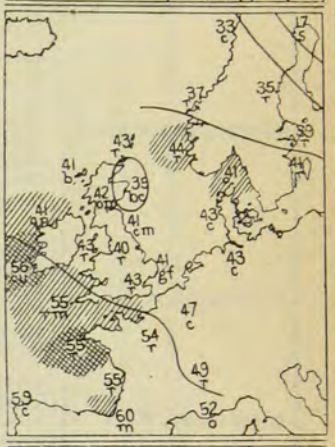
Wind moderate North-Westerly in Ireland and Scotland, but strong to gale from South-West over England and France, and strong from South or South-East on eastern shores of North Sea. Subsequently veering to West over England and moderating.

Sea high off the south-west of England and rough on all but our extreme western coasts.

Barometer rising a little in the west of our Islands, but falling elsewhere. Deep depression, with two minima, lying over south of Scotland, depression subsequently moving away over the North Sea, and barometer rising over our Islands and France.







Sunday, November 29.

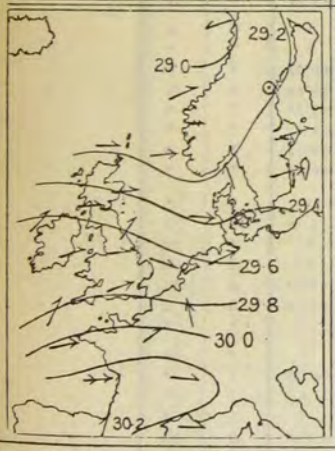
Weather fine in the north and east of Scotland, but cloudy or overcast elsewhere, with rain in many places. Rain setting-in over Scotland later.

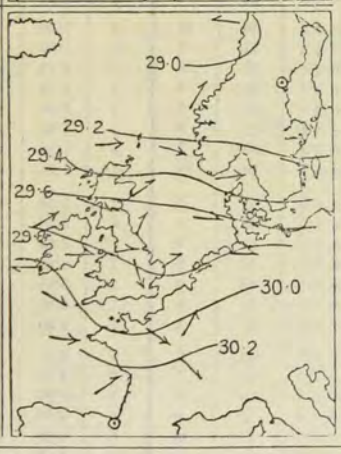
Temperature fallen over the eastern and central parts of Great Britain, but risen elsewhere; readings ranging from 56° at Valencia to 35° at Aberdeen. Rapid rise taking place over England later.

Wind strong South-Westerly on our south-west coasts and South-Easterly in the north-west, but light South-Westerly in the east.

Sea high off the north-west of France and also at Valencia, rather rough in the south-west and south generally.

Barometer falling in Sweden and also on our western coasts, but rising elsewhere. Depression of previous day now lying over Sweden, but new disturbance approaching Ireland. Latter subsequently moving northwards and barometer rising again in west.





Monday, November 30.

Weather fine in the north and north-west of our Islands, but dull elsewhere, with rain over our midland and south-eastern counties, and fog or mist in the south-west. Sky clearing in west later.

Temperature risen a little generally, readings ranging from 57° in London to 38° at Wick, Nairn, and Aberdeen. Fall taking place over England later.

Wind South-Westerly or Westerly, strong in force on our southern and the French coasts, but light to fresh elsewhere. Subsequently moderating in south.

Sea high off the north-west of France, and rough in the Channel, but slight on our northern coasts.

Barometer rising in most places. Pressure highest over south-west of France, with depression of previous day off the north-west of Norway. Rise continuing all day, but some shallow depressions passing across the south of England.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 189 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	46	34	43·7	36·4	40·1	− 0·7	5	21	7	0·89	−0·07	*	*
	Stornoway	49	34	45·9	37·3	41·6	+ 1·1	11	19	5	0·50	−0·60	14	29
	Wick	47	34	43·7	37·6	40·7	+ 0·7	5	17	4	0·18	−0·56	*	*
1. SCOTLAND, E.	Nairn	52	31	44·1	34·3	39·2	+ 0·2	6	28	4	0·39	−0·12	*	*
	Aberdeen	49	31	44·9	36·7	40·8	+ 2·1	8	21	6	1·38	+0·63	6	12
	Leith	51	37	47·6	38·7	43·2	+ 3·9	22	9	5	0·76	+0·26	*	*
2. ENGLAND, N.E.	Alnwick Castle	52	37	47·1	39·4	43·3	+ 4·3	20	7	6	1·72	?	*	*
	Durham	53	36	47·2	38·7	43·0	+ 3·7	21	9	6	1·21	+0·41	8	15
	Shields	55	32	49·4	38·1	43·8	+ 3·4	29	11	5	0·82	+0·12	*	*
	Scarborough ℍ	54	37	48·3	41·1	44·7	+ 4·8	23	3	5	0·88	+0·11	*	*
	York	56	38	50·1	40·1	45·1	+ 5·4	30	5	6	1·21	+0·66	2	4
	Spurn Head	54	38	48·6	40·4	44·5	+ 4·2	24	4	6	1·11	?	*	*
3. ENGLAND, E.	Hillington ℍ	56	38	50·4	40·7	45·6	+ 5·9	31	4	7	1·51	+0·90	2	4
	Yarmouth	55	38	49·9	40·3	45·1	+ 4·8	29	5	7	1·28	+0·55	*	*
	Geldeston	58	38	51·7	41·9	46·8	+ 6·4	34	0	7	1·06	+0·44	2	4
	Cambridge	59	37	52·3	40·1	46·2	+ 6·5	37	5	7	1·66	+1·21	2	4
	Rothamsted	58	33	52·0	40·4	46·2	+ 7·0	36	4	7	2·35	+1·75	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)§	57	38	50·3	40·1	45·2	+ 4·7	30	5	7	1·46	+0·92	4	7
	Loughborough	57	37	50·7	40·0	45·4	+ 6·1	32	6	7	1·59	+1·06	*	*
	Leicester	57	38	50·5	40·8	45·7	+ 7·0	31	3	7	1·59	+1·09	2	4
	Cheadle ℍ	54	35	48·1	37·6	42·9	+ 4·1	25	12	7	2·49	?	*	*
	Churchstoke ℍ	58	36	49·5	38·4	44·0	+ 5·0	29	10	7	2·07	?	2	4
	Hereford ℍ	56	35	51·9	39·5	45·7	+ 5·9	36	7	7	1·78	+1·21	*	*
	Cirencester	56	35	50·7	41·3	46·0	+ 6·5	31	2	7	3·78	+3·14	3	5
	Oxford	58	38	52·6	42·7	47·7	+ 7·5	40	0	7	1·87	+1·38		
5. ENGLAND, S.	London†	59	37	53·9	42·0	48·0	+ 7·5	42	0	7	2·00	+1·50	1	2
	Marlborough ℍ	57	38	51·6	41·5	46·6	+ 7·1	34	1	7	3·02	+2·32	1	2
	Strathfield Turgiss ℍ	58	36	53·5	42·0	47·8	+ 7·6	41	0	7	2·03	+1·48	*	*
	Dungeness	54	39	52·1	44·0	48·1	+ 5·4	43	0	7	2·27	?	*	*
	Hastings (St. Leonard's)	54	40	52·2	45·2	48·7	+ 6·1	47	0	7	2·84	+2·09	2	3
	Southampton	58	38	53·9	43·9	48·9	+ 7·9	48	0	7	2·32	+1·65	3	5
	Hurst Castle	54	41	52·4	44·7	48·6	+ 5·6	46	0	7	2·09	+1·42	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	50	38	47·0	40·4	43·7	+ 3·1	19	4	5	1·33	?	*	*
	Glasgow	48	36	45·2	38·1	41·7	+ 2·1	9	16	4	1·26	+0·36	2	4
	Ardrossan	50	39	46·9	40·1	43·5	+ 3·9	18	5	5	0·97	+0·07	*	*
	Douglas (Isle of Man)	53	37	48·6	41·6	45·1	+ 3·6	23	1	5	1·60	+0·58	9	17
7. ENGLAND, N.W.	Newton Reigny (Penrith)	52	35	46·6	38·0	42·3	+ 3·2	19	11	3	1·58	?	3	6
	Barrow-in-Furness	51	30	47·4	39·6	43·5	+ 1·5	21	7	6	1·83	?	*	*
	Stonyhurst	52	35	47·9	38·6	43·3	+ 3·6	23	10	5	1·65	+0·55	4	7
	Blackpool ℍ	52	32	48·2	39·9	44·1	+ 2·1	24	6	5	1·56	+0·84	8	15
	Manchester	54	38	49·3	40·3	44·8	+ 4·4	27	5	6	1·99	+1·25	*	*
	Liverpool Obsy (Bidston)	54	38	49·7	41·3	45·5	+ 4·2	27	2	6	1·25	+0·65	*	*
	Llandudno ℍ	57	39	50·7	41·6	46·2	+ 3·2	31	1	4	1·46	+0·62	3	5
	Holyhead	53	35	49·9	38·3	44·1	− 0·4	30	10	5	1·53	+0·66	*	*
8. ENGLAND, S.W.	Llandovery	55	32	52·0	39·7	45·9	+ 4·9	37	6	7	3·39	?	*	*
	Pembroke	54	43	52·0	46·0	49·0	+ 5·0	49	0	6	2·30	+1·35	5	9
	Arlington (N. Devon)	55	38	52·9	44·0	48·5	+ 7·3	46	0	7	3·57	?	*	*
	Cullompton ℍ	59	39	53·3	44·6	50·5	+ 8·4	60	0	7	2·42	?	3	5
	Falmouth	56	44	54·4	47·2	50·8	+ 5·8	62	0	7	3·24	+2·02	6	10
	Plymouth	57	43	55·4	46·7	51·1	+ 7·3	64	0	7	2·99	+2·19	3	5
	Prawle Point	54	40	53·7	46·4	50·1	+ 6·3	57	0	7	2·30	?	*	*
9. IRELAND, N.	Malin Head	54	36	48·9	39·9	44·4	+ 3·3	26	6	5	0·65	?	*	*
	Londonderry	53	35	49·2	39·0	44·1	+ 2·8	27	8	3	0·68	−0·27	*	*
	Mullaghmore	53	39	48·7	42·1	45·4	+ 3·4	24	0	5	0·88	?	*	*
	Belmullet	52	39	47·9	43·0	45·5	+ 1·3	25	0	6	0·83	?	*	*
	Markree Castle	52	31	48·5	37·8	43·2	+ 2·0	26	12	6	0·98	+0·18	10	19
	Brookeborough	52	34	48·1	38·9	43·5	+ 3·2	24	9	4	1·08	?	*	*
	Armagh	56	35	49·6	38·8	44·2	+ 3·2	29	9	6	1·02	+0·42	10	19
	Donaghadee	52	34	48·7	40·4	44·6	+ 2·7	25	4	6	1·03	+0·34	*	*
	Edgeworthstown	53	32	47·4	40·6	44·0	+ 3·6	20	4	5	1·13	?	*	*
10. IRELAND, S.	Dublin	58	38	51·9	42·3	47·1	+ 5·0	36	0	6	1·47	+0·95	8	15
	Parsonstown	58	35	51·6	41·1	46·4	+ 5·7	35	3	6	1·00	+0·40	8	15
	Kilkenny	59	34	52·1	42·1	47·1	+ 6·1	36	0	7	1·43	?	*	*
	Waterford												*	*
	Roche's Point	56	37	53·1	44·0	48·6	+ 4·7	43	0	6	3·12	+2·12	*	*
	Valencia	58	37	55·0	43·7	49·4	+ 5·3	52	0	7	2·43	+1·18	11	20
	Killarney	56	34	52·8	44·1	48·5	+ 2·3	39	5	7	2·62	?	*	*
	Foynes												*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	46	54·9	49·1	52·0	+ 4·1	70	0	7	2·01	+1·11	*	*
	Jersey (Noirmont)	59	45	54·3	48·6	51·5	+ 6·9	67	0	7	2·92	+2·04	2	3

Stations marked ℍ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ The Bright Sunshine values given for Bawtry are recorded at Worksop.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E STANFORD, 55, CHARING CROSS.

VOL. II. No. 49.] *New Series.* WEEK ENDING MONDAY, 7TH DECEMBER, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 196.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	21	40·7	32·3	36·6	4 below.	0	1520	38	711
	1. SCOTLAND, EAST	52	23	41·9	33·5	37·9	1 below.	0	2127	29	775
	2. ENGLAND, N.E.	53	20	43·2	35·1	39·3	0 (average).	3	2296	26	551
	3. ENGLAND, EAST	51	29	44·5	34·7	39·8	0 (average).	7	2686	29	685
	4. MIDLAND COUNTIES	51	23	44·0	34·4	39·4	0 (average).	6	2640	29	710
	5. ENGLAND, SOUTH	54	30	47·1	37·6	42·5	2 above.	22	3030	12	477
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	51	20	43·3	35·1	39·4	1 below.	4	2090	26	575
	7. ENGLAND, N.W.	54	18	44·4	35·9	40·3	1 below.	7	2313	24	515 *
	8. ENGLAND, S.W.	54	24	46·9	38·9	43·1	0 (average).	21	2750	9	363
	9. IRELAND, NORTH	54	19	43·8	34·4	39·3	2 below.	5	2320	29	499
	10. IRELAND, SOUTH †	55	30	46·5	36·7	41·8	1 below.	13	2715	23	384
	— CHANNEL ISLANDS	54	42	51·0	45·0	48·1	2 above.	43	3207	0	106

	DISTRICTS. (See p. 196.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	19	6 more.	231	32·9	11	1214	24	28
	1. SCOTLAND, EAST	5	8	2 more.	176	21·2	21	1410	44	33
	2. ENGLAND, N.E.	4	2	5 less.	173	23·0	13	988	26	23
	3. ENGLAND, EAST	4	2	4 less.	173	26·7	21	1471	39	35
	4. MIDLAND COUNTIES	4	4	2 less.	179	27·1	10	1365	19	32
	5. ENGLAND, SOUTH	4	7	1 more.	164	26·8	12	1460	21	34
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	4	11	4 less.	191	41·2	10	1307	19	31
	7. ENGLAND, N.W.	5	5	3 less.	182	30·6 *	11	1265	23	30
	8. ENGLAND, S.W.	5	12	2 more.	197	38·8	10	1529	18	36
	9. IRELAND, NORTH	4	9	1 more.	203	33·0	12	1221	23	29
	10. IRELAND, SOUTH †	5	11	2 more.	201	39·3	10	1454	19	34
	— CHANNEL ISLANDS	5	11	2 more.	211	31·0	18	1846	31	44

General Remarks.

Weather has been somewhat finer than it was during last week, but a good deal of cloud has prevailed generally, and in most places some heavy falls of rain have occurred. In the north some snow showers have been experienced.

Temperature has been 2° above the mean in "England, S." and in the "Channel Islands", but about equal to or slightly below it in most other parts of the Kingdom, while in "Scotland, N." there was a deficit of 4°. The maxima, which were recorded at most stations on the 3rd, varied between 49° in "Scotland, N." and 55° in "Ireland, S." Towards the end of the period the daily maxima were much lower, those in some parts of Scotland not exceeding 30° or 31°. The minima were generally registered on the 7th, when they ranged from 18° in "England, N.W." and 19° in "Ireland, N." to 30° in "England, S." and "Ireland, S.", and 42° in the "Channel Islands".

Rainfall has been less than the mean over the greater part of England, but rather more over Ireland, the north and east of Scotland, and the south and south-west of England.

Bright sunshine shows a considerable increase in nearly all districts, the percentages of the possible duration ranging from 18 in "England, S.W." to 39 in "England, E." and 44 in "Scotland, E."

Depressions observed.—Three depressions have appeared in our area during this period. The first travelled north-eastwards outside our northern coasts to the north of Norway on the 2nd and 3rd, and caused the South-Westerly wind to freshen in the north. The second moved in a north-easterly or east-north-easterly direction over Scotland on the 4th, and disappeared over the Gulf of Bothnia on the 5th. This disturbance brought very strong South-Westerly gales to our northern coasts, and moderate to fresh gales between south-west and west in other parts of the Kingdom. The third passed eastwards over our southern coasts, the Channel, and the north of France during the night of the 5th–6th, causing the wind at our southern stations to shift to the South-Eastward or Eastward and blow strongly.

* These values have been altered slightly owing to the receipt of some arrears of observations from Llandudno.
† The accumulated values for this district are liable to alteration owing to the non-arrival of the Return from Foynes.

E 19930. 350.—12/85. Wt. 38. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

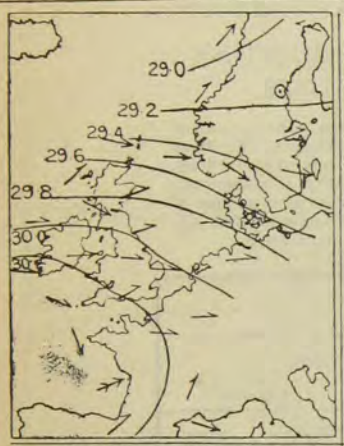
Weather

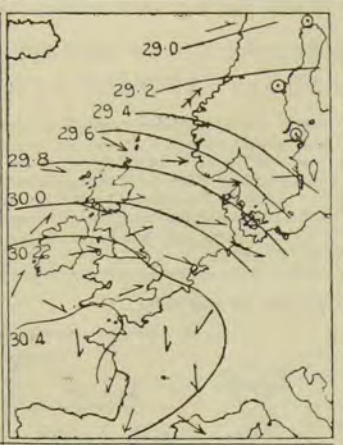
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Tuesday, December 1.

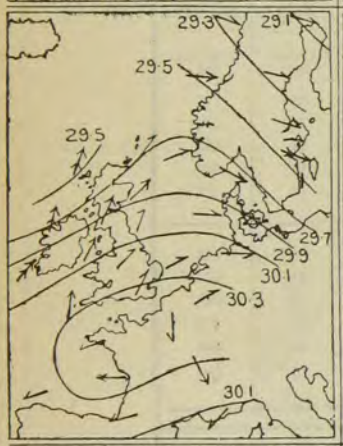
Weather rainy in the west of Norway and also at some of the French stations, but generally fine elsewhere. Showers of hail and rain falling on our extreme north-west coasts later, and lightning occurring in north of Scotland at night.

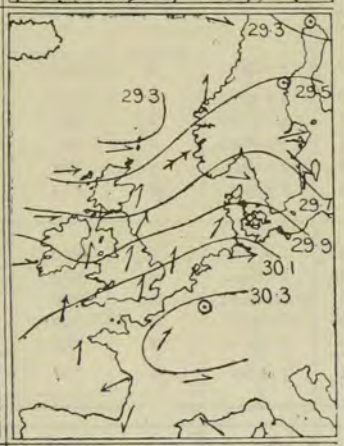
Temperature fallen several degrees over England and France; readings ranging from 50° at Scilly to 39° in London and 38° at Wick. Frost occurring in south-east of England at night.

Wind North-Westerly over the Channel and north-west of France, but Westerly or South-Westerly elsewhere; light to fresh in force generally.

Sea rough on some of the more exposed parts of our western and northern coasts, but moderate to smooth elsewhere.

Barometer rising at all but the southern French stations. Anticyclone lying over our south-west coasts, the Bay of Biscay, and west of France, with low pressure area off the north-west of Norway. Slight fall taking place on our extreme western coasts later.





Wednesday, December 2.

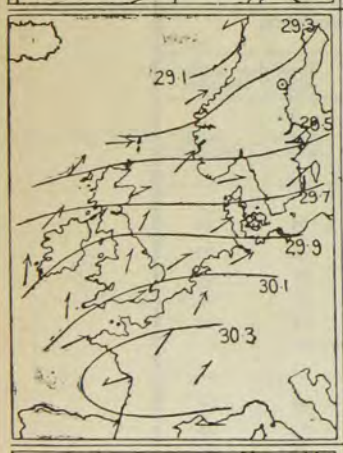
Weather dull and unsettled in the extreme west and north, but generally fine elsewhere. Dull rainy weather extending later to all but our south-eastern stations.

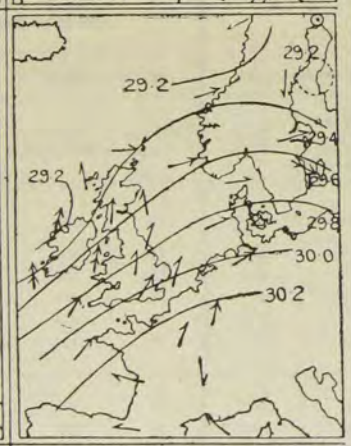
Temperature risen in the west and north of our Islands, but fallen elsewhere; readings ranging from 50° at Valencia and Roche's Point to 33° in London.

Wind Easterly in the south of France and Westerly on the eastern shores of the North Sea, but South-Westerly or Southerly elsewhere; strong to a gale on our extreme western and northern coasts. Subsequently veering to West in Ireland and the west of Scotland, and moderating.

Sea high at Stornoway and Valencia; rather rough in the west generally.

Barometer falling in most parts of our Islands, but rising at the Continental stations. Anticyclone lying over France, with depression to the north-westward of our Islands.





Thursday, December 3.

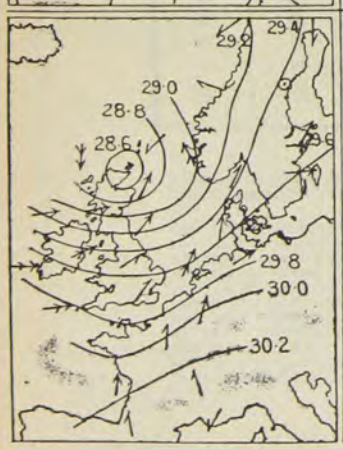
Weather fine in Denmark, Scotland, and the north of England, but cloudy or overcast elsewhere, with rain in many places. Heavy rain falling in west and north later.

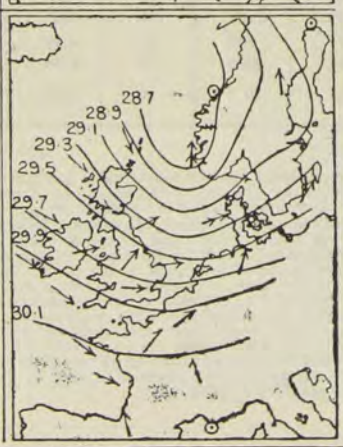
Temperature risen in the south-east of England, but fallen elsewhere; readings ranging from 50° at Scilly to 36° at Wick.

Wind Southerly in the west of Ireland but South-Westerly or Westerly elsewhere; moderate or fresh in force in most places, but strong in Norway and the south of Ireland. Fresh or strong Southerly or South-Westerly gales blowing later in most parts of the Kingdom.

Sea rough off the west coasts of Ireland and Scotland.

Barometer rising a little on our northern coasts, but falling elsewhere. Anticyclone still lying over France, and new disturbance approaching Ireland. Rapid fall taking place in west and north later.





Friday, December 4.

Weather fine at most of the Swedish stations, but squally and showery elsewhere. Sleet or hail showers falling on our north and north-west coasts later. Lightning seen in some parts of England at night.

Temperature risen at all but our south-western stations; readings ranging from 50° in London and at Jersey to 38° at Parsonstown.

Wind strong to a gale from West on our western and south-western coasts, and strong South-Westerly in the East, with South-Easterly gale in the south of Norway. North-Westerly gale in Scotland later.

Sea high on our western coasts and rough in the Channel, but moderate off our east coasts.

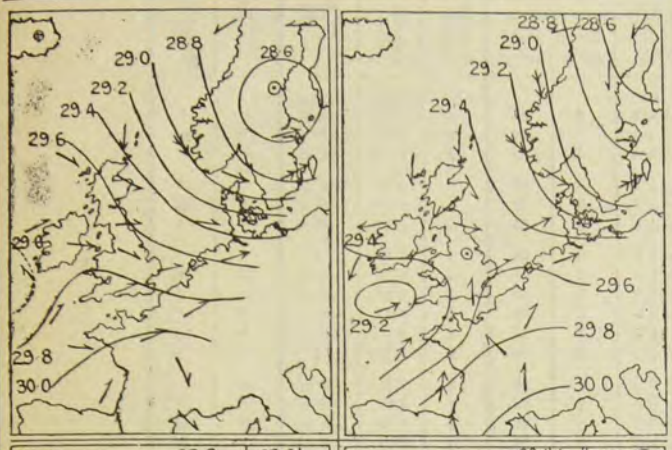
Barometer rising at our western stations, but falling elsewhere. Pressure highest in south of France, with deep depression over the north-east of Scotland. Depression subsequently moving north-eastwards, and barometer rising in all parts of the Kingdom.

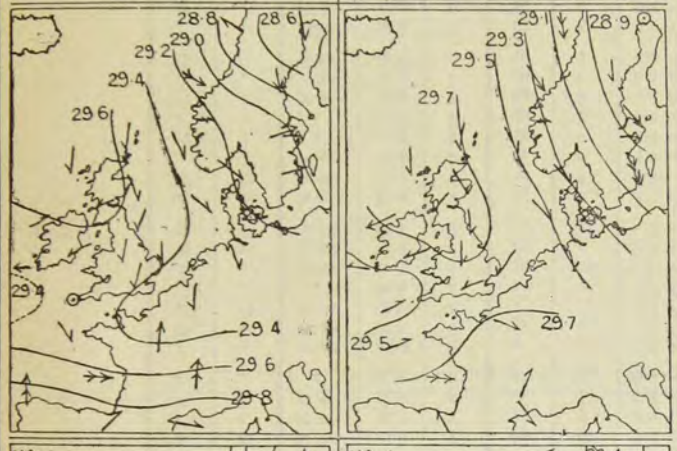
SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

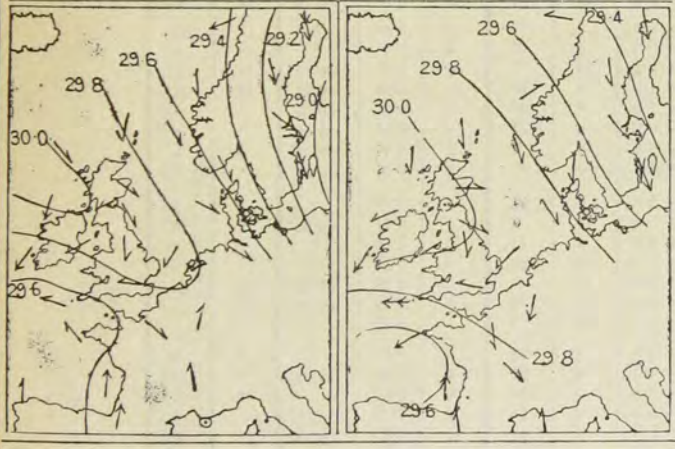
Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**







Weather

During the 24 hours succeeding

8 a.m. on the dates given.

Saturday, December 5.

Weather rainy on our south-west coasts and showery in the extreme north-west and north, but generally fine elsewhere. Heavy rain falling later at all southern stations and snow showers in north.

Temperature fallen a little in most places; readings ranging from 46° in the south-west of England to 35° at Nairn and Donaghadee. Sharp frost in Scotland at night.

Wind moderate or fresh from West or North-West on our north and east coasts, but light South-Westerly at Scilly and South-Easterly in the south of Ireland. Subsequently backing to South or South-East on all our more southern coasts and increasing to a moderate or fresh gale in South-West.

Sea rough on the Norwegian and Danish coasts and rather rough at Sumburgh Head and Spurn Head as well as in the Channel.

Barometer rising on all but our south-western and the Scandinavian coasts. Depressson of previous day now lying over Sweden but new one approaching the south of Ireland. Latter subsequently moving eastwards and barometer falling in nearly all parts of the Kingdom—quickly in the south.

Sunday, December 6.

Weather cloudy in most places with rain in the south of Ireland and snow or hail showers at some of our northern and eastern stations. Sky clearing in the north and east later. Brilliant aurora seen in Scotland at night.

Temperature fallen several degrees; readings ranging from 48° at Jersey to 27° at Stornoway, Nairn, and Aberdeen. Frost occurring at night in most places. Thermometer at Wick falling to 21°.

Wind moderate North-Westerly or Northerly in Scotland and the North Sea and North-Easterly or Easterly on our western and southern coasts, but strong from West over the Bay of Biscay.

Sea high off the north-west of France and rather rough on our south-west coasts as well as at Spurn Head.

Barometer rising at all but the French stations. Pressure still highest in south of France but relatively high off our north-west coasts, with rather deep depression over the north of Sweden and shallower disturbances over the north-east of France and the south of Ireland.

Monday, December 7.

Weather dull and misty in the south of our Islands, and snow falling in the north of Scotland, but clear skies reported in the intermediate districts. Sky clearing in south later.

Temperature risen a little on our south and south-west coasts, but fallen elsewhere; readings ranging from 49° at Scilly to 25° at Leith, Ardrossan, and York. Sharp frost at night in nearly all places, the lowest readings being 20° at Wick, York, and Parsonstown, and 21° at Loughboro.

Wind moderate North-Westerly over the North Sea, but fresh or strong from East or North-East on our southern coasts, and Southerly in the south-west of France. Easterly gale in south-west of England later.

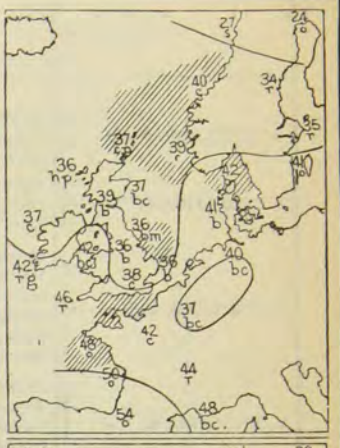
Sea high at Scilly, rough on our south-west coasts, moderate to smooth elsewhere.

Barometer rising at all but the French stations. Pressure highest off our north-west coasts, and lowest over Sweden, but area of relatively low readings lying over the Bay of Biscay. No important change later.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.



Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇉ = a heavy gale; ⟶ = a gale; → = a fresh to strong breeze; → = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 193 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	48	24	40·0	32·9	36·6	− 4·1	0	38	7	1·45	+0·50	*	*
	Stornoway	49	23	41·3	32·1	36·8	− 3·5	0	36	7	2·92	+0·77	11	24
	Wick	46	21	40·7	32·0	36·5	− 3·4	0	39	7	1·28	+0·53	*	*
1. SCOTLAND, E.	Nairn	48	23	41·0	32·6	37·0	− 1·8	0	35	6	0·97	+0·50	*	*
	Aberdeen	49	23	40·7	32·3	36·7	− 1·6	0	37	5	1·03	+0·28	21	44
	Leith	52	23	43·9	35·6	39·9	+ 1·0	5	25	3	0·27	−0·19	*	*
2. ENGLAND, N.E.	Alnwick Castle	49	25	40·9	35·1	38·1	− 0·5	0	27	4	0·23	?	*	*
	Durham	52	20	42·5	32·0	37·5	− 1·3	1	37	4	0·21	−0·59	20	39
	Shields	52	31	43·7	36·7	40·3	+ 0·4	5	20	4	0·25	−0·45	*	*
	Scarborough ℍ	50	29	43·8	35·5	39·8	+ 0·6	5	25	4	0·25	−0·51	*	*
	York	53	28	44·4	35·1	39·9	+ 0·7	7	27	3	0·10	−0·45	6	12
	Spurn Head	52	23	43·9	35·9	40·1	+ 0·4	5	24	3	0·12	?	*	*
3. ENGLAND, E.	Hillington ℍ	50	29	44·1	33·4	39·0	− 0·2	6	33	2	0·14	−0·47	19	36
	Yarmouth	48	33	43·9	35·7	40·0	− 0·8	5	25	5	0·09	−0·62	*	*
	Geldeston	49	32	45·2	35·9	40·7	+ 0·8	9	25	4	0·10	−0·50	27	50
	Cambridge	51	31	45·0	33·9	39·7	+ 0·5	8	32	4	0·21	−0·24	16	30
	Rothamsted	50	30	44·5	34·5	39·7	+ 0·9	7	29	6	0·43	−0·17	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)§	51	27	44·7	34·3	39·7	− 0·5	8	30	2	0·30	−0·25	14	26
	Loughborough	51	23	43·3	34·9	39·3	+ 0·5	4	27	3	0·10	−0·43	*	*
	Leicester	51	29	44·8	34·5	39·9	+ 1·6	8	30	4	0·17	−0·34	6	11
	Cheadle ℍ	50	28	42·8	33·1	38·1	− 0·4	2	33	3	0·14	?	*	*
	Churchstoke ℍ	51	25	43·5	33·5	38·7	− 0·4	4	32	5	0·40	?	7	13
	Hereford ℍ	51	32	44·2	34·0	39·3	− 0·1	6	31	5	0·51	−0·06	*	*
	Cirencester	49	31	43·3	34·1	38·9	− 0·3	4	30	6	0·70	+0·05	12	22
	Oxford	51	33	45·0	37·0	41·2	+ 1·3	8	21	5	0·44	−0·05	13	24
5. ENGLAND, S.	London†	52	32	46·6	36·9	41·9	+ 1·7	13	22	5	0·59	+0·09	6	11
	Marlborough ℍ	49	31	43·9	34·5	39·4	+ 0·2	5	29	4	0·71	+0·05	11	20
	Strathfield Turgiss ℍ	50	30	45·5	35·9	40·9	+ 0·9	10	25	3	0·47	+0·07	*	*
	Dungeness	54	32	49·6	38·7	44·4	+ 2·2	31	9	3	0·55	?	*	*
	Hastings (St. Leonard's)	51	36	47·1	39·4	43·4	+ 1·2	21	7	5	0·63	−0·10	15	27
	Southampton	52	33	47·3	37·9	42·8	+ 2·6	23	11	5	1·08	+0·38	14	25
	Hurst Castle	53	35	49·9	39·9	45·1	+ 2·3	31	6	6	0·98	+0·31	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	50	20	43·3	34·2	38·9	− 1·6	4	29	5	2·87	?	*	*
	Glasgow	51	20	42·2	31·6	37·2	− 2·4	1	39	3	0·74	−0·19	6	12
	Ardrossan	49	23	42·3	37·4	40·0	+ 0·5	1	17	3	0·54	−0·38	*	*
	Douglas (Isle of Man)	51	27	45·5	37·3	41·6	+ 0·1	10	20	4	0·33	−0·72	13	25
7. ENGLAND, N.W.	Newton Reigny (Penrith)	50	18	41·7	31·6	36·9	− 1·9	0	36	3	0·80	?	11	22
	Barrow-in-Furness	51	29	43·6	38·7	41·3	− 0·5	4	14	4	0·33	?	*	*
	Stonyhurst	51	26	46·0	34·3	40·4	+ 1·2	11	32	4	0·47	−0·61	14	27
	Blackpool ℍ	52	27	43·3	36·7	40·1	− 1·7	4	20	3	0·48	−0·26	12	23
	Manchester	54	26	44·9	33·5	39·2	− 1·0	8	32	3	0·80	+0·05	*	*
	Liverpool Obsy (Bidston)	53	31	43·7	37·1	40·5	− 0·7	5	19	4	0·51	−0·10	*	*
	Llandudno ℍ	54	31	46·2	38·7	42·6	0·0	18	9	1	0·25	−0·57	5	9
	Holyhead	51	30	45·4	36·7	41·2	− 3·2	10	22	3	0·53	−0·37	*	*
8. ENGLAND, S.W.	Llandovery	51	24	44·0	31·7	38·1	− 2·6	6	39	5	0·86	?	*	*
	Pembroke	51	36	45·9	42·3	44·1	+ 0·3	15	0	5	0·91	−0·04	9	17
	Arlington (N. Devon)	50	34	44·1	39·1	41·7	+ 0·5	6	12	6	1·02	?	*	*
	Cullompton ℍ	51	29	45·9	35·3	40·9	− 1·0	11	28	6	1·27	?	7	13
	Falmouth	54	39	51·1	41·9	46·7	+ 1·7	33	0	5	2·04	+0·82	13	23
	Plymouth	53	34	49·1	40·8	45·1	+ 1·7	27	3	5	1·42	+0·58	10	18
	Prawle Point	53	38	48·3	41·0	44·8	+ 1·4	24	3	5	1·09	?	*	*
9. IRELAND, N.	Malin Head	50	33	45·3	38·3	41·9	+ 0·7	9	16	5	0·62	?	*	*
	Londonderry	54	24	45·3	32·6	39·2	− 1·8	9	37	4	0·93	−0·01	*	*
	Mullaghmore	52	33	44·0	37·6	40·9	− 1·3	6	18	4	1·02	?	*	*
	Belmullet	51	34	44·6	39·0	41·9	− 2·3	7	13	5	1·89	?	*	*
	Markree Castle	52	22	44·3	30·6	37·7	− 3·5	6	43	4	0·93	+0·13	12	23
	Brookeborough	51	19	43·1	31·2	37·4	− 2·7	3	40	3	0·86	?	*	*
	Armagh	52	24	43·2	31·7	37·7	− 3·3	3	39	3	0·58	−0·02	12	23
	Donaghadee	52	33	43·7	35·1	39·6	− 2·1	5	27	3	0·46	−0·19	*	*
	Edgeworthstown	52	29	41·1	33·1	37·3	− 2·9	0	33	2	0·40	?	*	*
10. IRELAND, S.	Dublin	55	36	47·3	37·9	42·8	+ 0·8	23	11	3	0·35	−0·18	11	21
	Parsonstown	54	30	44·4	34·6	39·7	− 0·9	7	29	4	0·49	−0·14	10	19
	Kilkenny	54	32	44·8	34·1	39·7	− 0·9	8	31	5	0·62	?	*	*
	Waterford	52	32	45·0	35·2	40·3	− 2·4	8	27	5	1·07	+0·12	*	*
	Roche's Point	52	36	47·3	38·7	43·2	− 0·4	22	9	6	2·17	+1·14	*	*
	Valencia	55	37	48·6	40·3	44·6	− 1·4	25	5	7	1·05	−0·27	9	17
	Killarney	55	33	48·0	35·9	42·2	− 1·7	27	17	6	1·66	?	*	*
	Foynes												*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	43	51·7	45·9	48·9	+ 1·2	48	0	6	1·18	+0·27	*	*
	Jersey (Noirmont)	54	42	50·3	44·0	47·3	+ 3·1	37	0	4	1·02	+0·14	18	31

Stations marked ℍ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ The Bright Sunshine values given for Bawtry are recorded at Worksop.

Erratum.—Falmouth.—The Rainfall at this station (3·24 ins.) published in last week's report was probably too large by 0·28 in., there having been some discrepancy in recording the values given for the 24th and 28th.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E STANFORD, 55, CHARING CROSS.

VOL. II. No. 50.] *New Series.* WEEK ENDING MONDAY, 14TH DECEMBER, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 200.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. Above 42° For the Week.	Above 42° Since Dec. 30/84.	Below 42° For the Week.	Below 42° Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	52	20	42·6	31·2	37·1	3 below.	2	1522	40	751
	1. SCOTLAND, EAST	52	19	41·5	30·0	35·9	2 below.	0	2127	43	818
	2. ENGLAND, N.E.	51	16	39·7	29·0	34·6	4 below.	0	2296	52	603
	3. ENGLAND, EAST	50	16	37·8	27·0	32·6	6 below.	0	2686	66	751
	4. MIDLAND COUNTIES	49	17	39·2	27·7	33·6	5 below.	0	2640	59	769
	5. ENGLAND, SOUTH	52	19	39·7	29·1	34·6	6 below.	0	3030	52	529
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	52	22	42·9	33·2	38·2	2 below.	3	2093	32	607
	7. ENGLAND, N.W.	51	14	41·6	30·5	36·2	5 below.	0	2313	41	556
	8. ENGLAND, S.W.	52	14	41·9	30·3	36·4	6 above.	0	2750	39	403 *
	9. IRELAND, NORTH	52	18	43·4	33·1	38·4	3 below.	4	2324	33	532
	10. IRELAND, SOUTH	53	19	43·6	31·1	37·6	5 below.	4	2720	41	417 †
	— CHANNEL ISLANDS	51	32	44·7	37·5	41·3	4 below.	8	3215	19	125

	DISTRICTS. (See p. 200.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Since Dec. 30/84. Number of Rainy Days.	Total Fall.	Bright Sunshine. Hours recorded. For the Week.	Since Dec. 30/84.	Percentage of the possible Duration. For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	8	1 less.	237	33·7	5	1219	11	28
	1. SCOTLAND, EAST	2	1	4 less.	178	21·3	–	–	–	–
	2. ENGLAND, N.E.	2	2	5 less.	175	23·2	8	996	15	23
	3. ENGLAND, EAST	3	3	3 less.	176	27·0	13	1484	26	35
	4. MIDLAND COUNTIES	1	less than ½	5 less.	180	27·1	12	1377	23	32
	5. ENGLAND, SOUTH	2	1	6 less.	166	26·9	17	1477	31	34
Principal Grazing, &c. Districts.	6. SCOTLAND, WEST	3	4	6 less.	194	41·6	9	1316	17	31
	7. ENGLAND, N.W.	2	2	7 less.	184	30·8	11	1276	21	30
	8. ENGLAND, S.W.	1	1	10 less.	198	38·9	20	1549	36	36
	9. IRELAND, NORTH	2	1	6 less.	205	33·1	11	1232	21	29
	10. IRELAND, SOUTH	1	1	9 less.	202	39·4	16	1470	31	34
	— CHANNEL ISLANDS	1	less than ½	9 less.	212	31·0	17	1863	30	43

General Remarks.

Weather was generally fine and frosty during the earlier part of the period, but at some of our northern and eastern stations rather heavy falls of snow were experienced. Towards the end of the week the conditions underwent a change, and mild, dull weather, with showers of rain, became prevalent.

Temperature has been below the mean in all districts, the deficit ranging from 2° or 3° in Scotland, to 5° or 6° over the greater part of England. During the earlier days of the period the readings were very low, minima between 14° and 19° being recorded over England and Ireland, and between 19° and 22° in Scotland, while in the "Channel Islands" the lowest reading was 32°. As the week progressed, however, the thermometer rose rapidly, and on the 13th or 14th maxima between 49° and 53° were registered.

Rainfall has been less than the mean in all districts; over Ireland, southern and central England, and the east of Scotland the fall has been very slight.

Bright sunshine does not differ greatly from that reported last week, the percentages of the possible amount of duration varying from 11 in "Scotland, N." to 31 in "England, S." and "Ireland, S." and 36 in "England, S.W."

Depressions observed.—During the greater part of this period the distribution of barometric pressure over the United Kingdom was anticyclonic. No depressions (excepting a small subsidiary which brought snow to our northern and eastern stations on the 8th or 9th) came sufficiently near us to materially influence our winds or weather until towards the close of the week, when the high-pressure area moved southwards and some large and rather deep disturbances passed eastwards or north-eastwards outside our northern coasts. Moderate to fresh breezes from between North-West and North-East were general till the 11th, when they gave way to Westerly or South-Westerly winds, moderate in the south, but fresh or strong in the north.

* This value has been altered slightly owing to an error in the Return from Arlington for last week.
† This value has been altered somewhat owing to the receipt of some arrears of observations.

Note.—The sunshine values for "Scotland, E." (Aberdeen) have not yet arrived.

E 20037. 350.—12/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

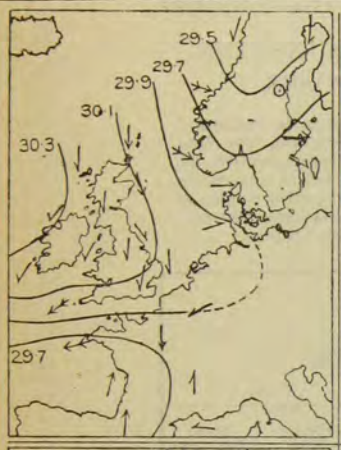
Weather

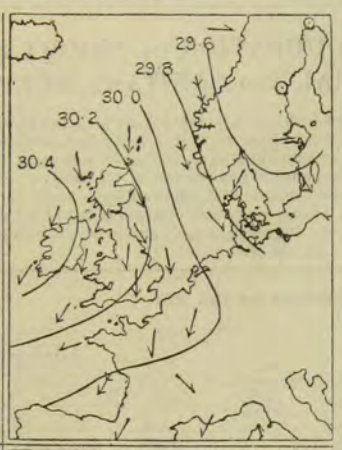
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Tuesday, December 8.

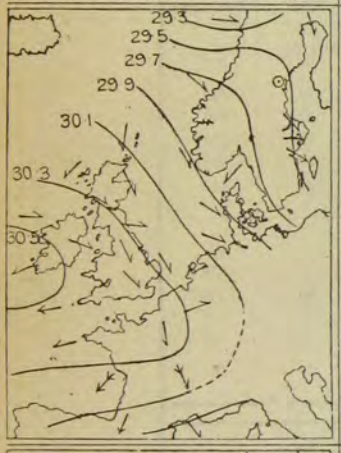
Weather fine over the greater part of England and Ireland, but snow falling in Scotland and Norway and rain in the west of France. Snow in east of England later, and lightning seen at Spurn Head at night.

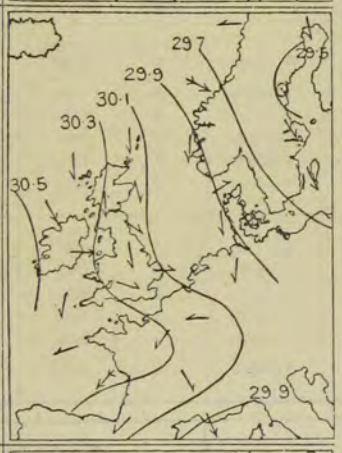
Temperature risen slightly on our extreme north-west coasts, but fallen elsewhere; readings ranging from 41° at Scilly and Jersey to 22° at Sumburgh Head, Loughborough, and Parsonstown. Maxima at our northern and eastern stations not exceeding 32°.

Wind Northerly in Scotland and North-Westerly or Westerly in Norway, but chiefly North-Easterly elsewhere; strong in force over the western part of the Channel as well as in Scotland.

Sea high in the Bay of Biscay, rough at the mouth of the Channel, and rather rough at Sumburgh Head and Spurn Head.

Barometer rising generally. Anticyclone lying to the westward of our Islands, with depressions over the north of Scandinavia and Bay of Biscay. Latter disturbance subsequently moving south-eastwards.





Wednesday, December 9.

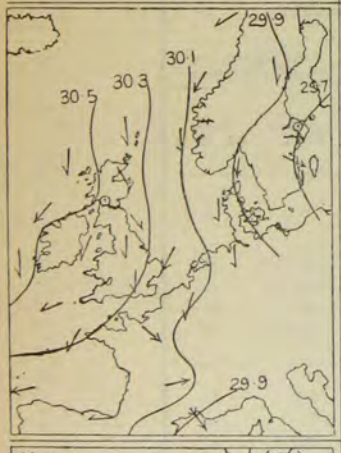
Weather fine in most places, but snow falling in the north of Scotland and hail showers at Malin Head. Snow showers falling later in most parts of Great Britain.

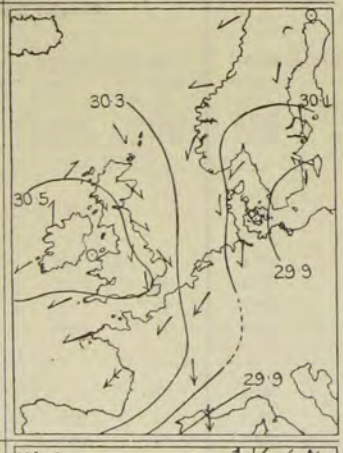
Temperature risen a little on our north and north-east coasts, but fallen elsewhere; readings ranging from 42° at Malin Head to 25° at Hurst Castle and Cambridge and 22° at Parsonstown. Maxima as low as 30° at Wick and 32° at Cambridge, with severe frost in most places at night.

Wind North-Easterly at our southern and the French stations, but North-Westerly elsewhere; moderate or fresh in force in most places.

Sea rather rough off the east of England as well as at Sumburgh Head.

Barometer rising on all but our northern coasts. Anticyclone lying over Ireland, with depression over the north of Scandinavia, relatively low pressures over the south of France, and a small shallow disturbance over the west of Scotland. Shallow depression subsequently moving south-eastwards.





Thursday, December 10.

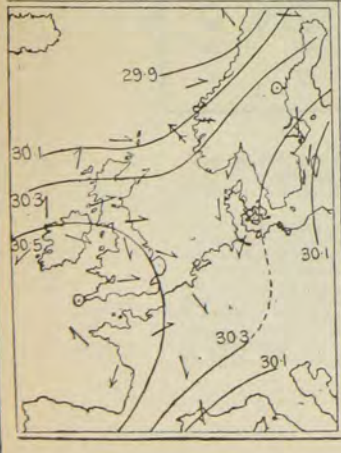
Weather fine at most stations, but snow showers falling on the east coast of England.

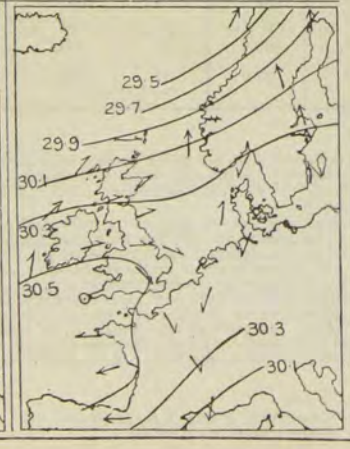
Temperature risen slightly at some of our western and southern stations, but fallen elsewhere; readings ranging from 40° at Belmullet and Scilly to 23° at Nairn. Maxima at some of our north-eastern and eastern stations not exceeding 32°.

Wind chiefly Northerly, fresh or strong in force on our eastern and the French coasts, but light or moderate elsewhere. Subsequently backing to South-West in the Hebrides.

Sea rough off the east of England, moderate to smooth elsewhere.

Barometer rising at all but the French stations. Anticyclone lying off our extreme western coasts, with relatively low pressure over the Baltic and south-east of France. Slight fall taking place in Scotland later.





Friday, December 11.

Weather dull at our extreme western and northern as well as the Scandinavian stations, but generally fine elsewhere. Rain falling in north of Scotland later.

Temperature risen in the west and north of Scotland, but fallen elsewhere; readings ranging from 42° at Sumburgh Head to 20° at York. Rise taking place later in most parts of the Kingdom, but maximum readings over central England not exceeding 35°.

Wind moderate South-Westerly in north, but light North-Westerly or Northerly in south. South-Westerly winds extending southwards later.

Sea rather rough off the east off England.

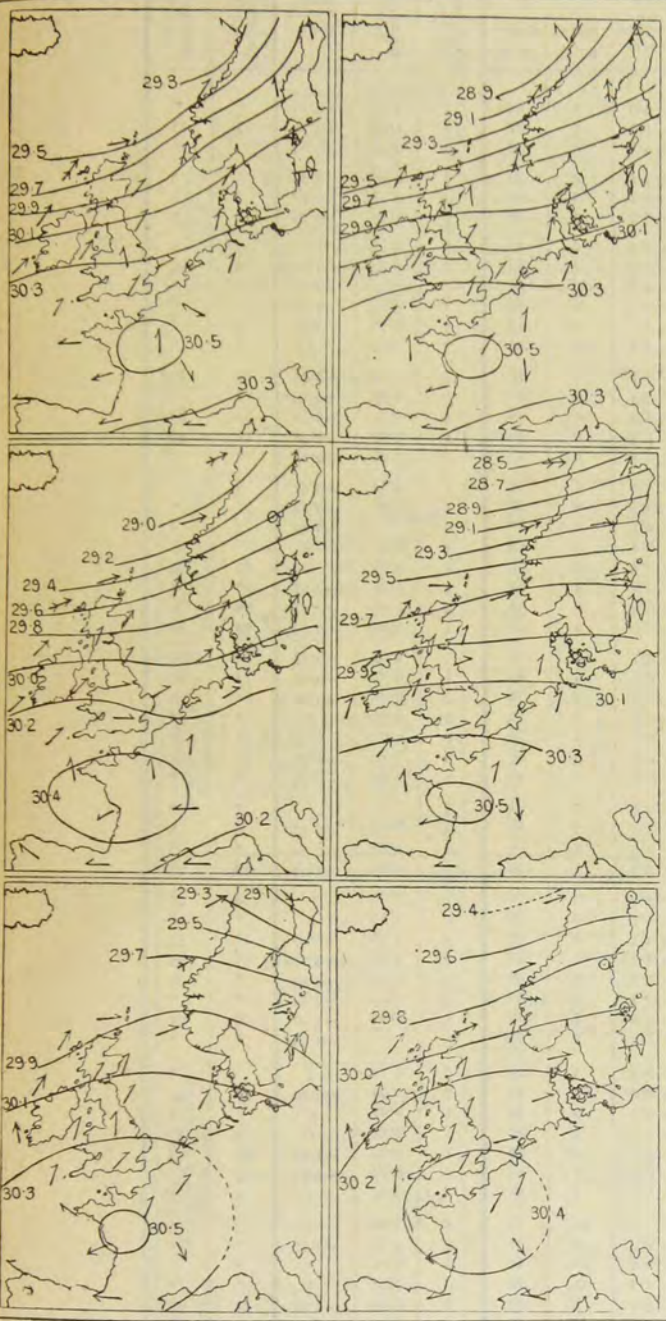
Barometer falling on our northern coasts and also in the west of Norway, but rising elsewhere. Anticyclone covering the greater part of England, Ireland, and France, with depression off the west of Norway, and relatively low pressures over the Baltic and Gulf of Genoa. Fall subsequently becoming general.

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**



Weather

During the 24 hours succeeding 8 a.m. on the dates given.

Saturday, December 12.

Weather fine at the French stations, but cloudy or overcast elsewhere with rain on some parts of our north and north-west coasts.

Temperature fallen a little in France but risen considerably over our Islands and the eastern shores of the North Sea; readings ranging from 48° at Valencia to 32° at Yarmouth.

Wind Easterly over the west and south of France, but South-Westerly elsewhere; moderate or fresh in force generally, but strong to a gale in the Hebrides and south of Norway. Subsequently increasing to strong breeze at many of our western and northern stations.

Sea rather rough on exposed parts of our western and northern coasts.

Barometer falling generally. Anticyclone now lying over France with large area of low pressure to the northward of our Islands. No important change later.

Sunday, December 13.

Weather cloudy or overcast generally, with rain at Christiansund, Fanö, and Stornoway. Rain falling later at several of our southern and also at our extreme northern stations.

Temperature again risen generally; readings ranging from 50° at Stornoway, Wick, Valencia, and Scilly to 37° at Yarmouth.

Wind Easterly in the west and south of France, but South-Westerly elsewhere; moderate or fresh in force on all but our extreme northern coasts, where strong to a gale. Wind moderating in north later.

Sea very rough off the north of Scotland and rather rough off the west of Ireland, but moderate to smooth elsewhere.

Barometer falling generally. Distribution of pressure same as on previous day, but low pressure system in the far north moving slowly eastwards. Rise taking place in our Islands later.

Monday, December 14.

Weather fine at some of our eastern stations as well as in the south-west of France, but cloudy elsewhere, with fog over central England. Rain falling in Shetlands and Hebrides later.

Temperature fallen a little in the east, but risen slightly elsewhere; readings ranging from 51° at Valencia to 39° at Spurn Head and York.

Wind still Easterly in the west of France, but South-Westerly over the greater part of our Islands, and Westerly in Scandinavia; moderate in force in most places.

Sea rough in the extreme west and south-west.

Barometer rising generally. Anticyclone still lying over France, with lowest pressures over the north of Sweden. Slight fall taking place later over the Bay of Biscay and our south-west coasts.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➔ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 197 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	50	20	42·3	31·6	37·2	− 3·3	1	38	7	0·78	−0·15	*	*
	Stornoway	51	23	43·7	32·3	38·2	− 1·7	5	37	7	1·36	+0·11	5	11
	Wick	52	20	41·9	29·6	36·0	− 3·5	0	42	5	0·36	−0·35	*	*
1. SCOTLAND, E.	Nairn	52	19	42·1	31·1	36·7	− 1·5	0	39	2	0·05	−0·40	*	*
	Aberdeen	50	22	40·7	28·4	34·8	− 3·3	0	50	3	0·17	−0·58	?	?
	Leith	51	23	41·6	30·6	36·3	− 2·1	0	40	2	0·10	−0·33	*	*
2. ENGLAND, N.E.	Alnwick Castle	48	22	39·4	32·4	36·0	− 2·2	0	42	1	0·15	?	*	*
	Durham	50	19	39·4	27·2	33·5	− 5·0	0	60	1	0·20	−0·61	13	26
	Shields	51	20	41·0	28·1	34·8	− 4·6	0	50	3	0·11	−0·59	*	*
	Scarborough ℜ	46	25	39·6	30·7	35·3	− 3·4	0	47	3	0·32	−0·43	*	*
	York	48	16	39·9	25·3	32·9	− 6·1	0	64	1	0·28	−0·29	2	4
	Spurn Head	45	27	38·9	30·4	34·8	− 4·0	0	50	3	0·26	?	*	*
3. ENGLAND, E.	Hillington ℜ	45	16	37·0	26·3	31·9	− 6·7	0	71	2	0·31	−0·29	10	19
	Yarmouth	45	24	37·9	28·7	33·5	− 5·8	0	60	4	0·80	+0·10	*	*
	Geldeston	47	20	38·4	27·0	32·9	− 6·5	0	64	4	0·30	−0·25	15	28
	Cambridge	50	20	37·6	25·9	32·0	− 7·1	0	70	1	0·09	−0·36	17	32
	Rothamsted	46	22	37·9	27·0	32·6	− 5·8	0	66	3	0·05	−0·55	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)§	48	21	41·0	27·7	34·6	− 4·8	0	52	1	0·04	−0·52	9	17
	Loughborough	49	21	39·9	27·3	33·9	− 4·4	0	57	1	0·03	−0·51	*	*
	Leicester	47	22	38·6	29·1	34·0	− 4·1	0	56	0	—	−0·54	2	4
	Cheadle ℜ	46	21	38·1	27·9	33·2	− 5·0	0	62	2	0·07	?	*	*
	Churchstoke ℜ	46	18	39·4	26·7	33·3	− 5·4	0	61	1	0·02	?	14	27
	Hereford ℜ	48	17	40·6	27·1	34·1	− 5·0	0	55	1	0·03	−0·57	*	*
	Cirencester	45	18	37·0	27·1	32·3	− 6·8	0	68	3	0·03	−0·67	20	38
	Oxford	46	23	38·7	28·3	33·7	− 5·6	0	58	1	0·03	−0·46	18	34
5. ENGLAND, S.	London†	48	22	39·6	28·1	34·0	− 5·7	0	56	1	0·04	−0·47	9	16
	Marlborough ℜ	44	19	37·5	27·5	32·7	− 6·0	0	65	1	0·03	−0·62	18	33
	Strathfield Turgiss ℜ	44	19	38·1	27·4	33·0	− 6·4	0	63	2	0·04	−0·48	*	*
	Dungeness	52	23	41·6	30·1	36·1	− 5·9	0	41	2	0·09	?	*	*
	Hastings (St. Leonard's)	48	24	38·6	30·9	34·9	− 6·9	0	50	3	0·08	−0·62	21	38
	Southampton	47	23	39·9	30·1	35·2	− 4·5	0	48	2	0·05	−0·66	20	36
	Hurst Castle	47	22	42·6	29·4	36·3	− 5·9	2	47	2	0·08	−0·60	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	52	22	44·5	35·9	40·3	− 0·1	7	24	7	1·51	?	*	*
	Glasgow	48	22	40·7	31·4	36·2	− 3·0	0	41	3	0·07	−0·92	4	8
	Ardrossan	48	22	44·3	32·4	38·6	− 0·5	6	37	2	0·05	−0·90	*	*
	Douglas (Isle of Man)	50	25	42·2	33·1	37·8	− 3·6	1	32	1	0·02	−1·07	13	25
7. ENGLAND, N.W.	Newton Reigny (Penrith)	48	14	38·3	25·6	32·2	−11·0	0	69	2	0·21	?	8	16
	Barrow-in-Furness	47	25	42·0	31·0	36·7	− 4·7	0	37	2	0·15	?	*	*
	Stonyhurst	48	20	40·4	29·1	35·0	− 4·1	0	49	2	0·43	−0·67	11	22
	Blackpool ℜ	47	19	42·0	29·1	35·8	− 5·7	0	43	3	0·09	−0·69	11	22
	Manchester	48	22	39·1	29·6	34·5	− 5·2	0	53	2	0·20	−0·55	*	*
	Liverpool Obsy (Bidston)	50	27	42·6	32·3	37·7	− 3·1	2	36	3	0·12	−0·52	*	*
	Llandudno ℜ	51	26	43·6	33·7	38·9	− 3·4	4	32	1	0·04	−0·76	13	25
	Holyhead	49	29	44·4	33·3	39·1	− 5·1	7	34	0	—	−0·90	*	*
8. ENGLAND, S.W.	Llandovery	47	14	39·7	23·9	32·1	− 8·6	0	69	3	0·14	?	*	*
	Pembroke	50	30	44·6	35·9	40·4	− 3·0	7	24	2	0·05	−0·90	17	32
	Arlington (N. Devon)	47	20	40·7	29·7	35·4	− 5·5	0	46	1	0·07	?	*	*
	Cullompton ℜ	46	16	39·7	27·3	33·8	− 7·6	0	57	1	0·02	?	14	25
	Falmouth	50	27	43·0	33·9	38·6	− 5·8	3	30	1	0·03	−1·19	27	48
	Plymouth	51	23	42·5	30·2	36·6	− 6·6	1	43	1	0·02	−0·85	22	39
	Prawle Point	52	22	43·4	31·3	37·6	− 5·6	4	40	1	0·01	?	*	*
9. IRELAND, N.	Malin Head	50	34	46·0	38·1	42·2	+ 1·1	18	11	2	0·06	?	*	*
	Londonderry	52	26	44·1	33·9	39·2	− 1·5	6	31	3	0·18	−0·72	*	*
	Mullaghmore	51	33	45·6	38·1	42·0	+ 0·2	10	11	3	0·08	?	*	*
	Belmullet	50	30	45·9	37·4	41·8	− 3·2	11	20	3	0·20	?	*	*
	Markree Castle	52	18	42·8	27·9	35·7	− 5·5	2	52	4	0·24	−0·37	11	22
	Brookeborough	48	18	42·0	28·5	35·3	− 4·8	0	47	1	0·07	?	*	*
	Armagh	49	23	41·3	31·2	36·5	− 4·1	0	39	2	0·02	−0·59	10	20
	Donaghadee	49	27	42·6	32·3	37·7	− 3·8	2	36	1	0·11	−0·54	*	*
	Edgeworthstown	49	25	40·0	30·6	35·5	− 4·5	0	46	2	0·08	?	*	*
10. IRELAND, S.	Dublin	52	24	42·3	33·4	38·0	− 3·4	1	31	2	0·04	−0·51	22	42
	Parsonstown	51	20	43·0	27·7	35·5	− 4·9	3	52	1	0·04	−0·63	14	27
	Kilkenny	50	19	42·1	26·9	34·8	− 5·4	0	55	1	0·02	?	*	*
	Waterford	49	21	41·9	29·2	35·8	− 6·7	0	43	1	0·03	−0·95	*	*
	Roche's Point	51	30	45·4	34·9	40·4	− 2·8	10	29	1	0·12	−0·96	*	*
	Valencia	53	29	47·7	35·6	41·9	− 3·8	16	28	3	0·11	−1·25	12	23
	Killarney	51	19	43·4	30·4	37·2	− 6·5	4	44	1	0·09	?	*	*
	Foynes	53	26	42·7	30·4	36·8	− 5·4	2	43	2	0·04	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	51	32	46·3	38·3	42·5	− 4·8	19	10	1	0·06	−0·86	*	*
	Jersey (Noirmont)	48	34	43·1	36·7	40·0	− 4·0	3	20	0	—	−0·89	17	30

Stations marked ℜ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866-80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ The Bright Sunshine values given for Bawtry are recorded at Worksop.

Erratum.—The "Difference from the Mean" in the Rainfall at Stornoway for last week should have read "+ 1·77."

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E STANFORD, 55, CHARING CROSS.

VOL. II. No. 51.] *New Series.* WEEK ENDING MONDAY, 21ST DECEMBER, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 204.)	Temperature of the Air.								
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.		
				Averages of				Above 42°		Below 42°
		Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.		For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	**0.** SCOTLAND, NORTH	59	32	48·0	41·5	44·9	5 above.	22	1544	1	752
	1. SCOTLAND, EAST	57	32	48·1	39·3	43·9	6 above.	25	2152	8	826
	2. ENGLAND, N.E.	57	31	45·8	37·4	41·8	3 above.	11	2307	20	623
	3. ENGLAND, EAST	51	30	46·3	37·9	42·2	4 above.	19	2705	11	762
	4. MIDLAND COUNTIES	54	30	46·3	36·7	41·7	3 above.	12	2651 *	23	792
	5. ENGLAND, SOUTH	52	29	47·2	39·6	43·6	3 above.	21	3051	7	536
Principal Grazing, &c. Districts.	**6.** SCOTLAND, WEST	55	37	47·6	42·9	45·4	6 above.	24	2117	0	607
	7. ENGLAND, N.W.	55	27	46·8	37·8	42·5	2 above.	21	2334	12	568
	8. ENGLAND, S.W.	52	30	48·2	41·2	44·8	2 above.	23	2773	2	405
	9. IRELAND, NORTH	57	36	49·2	43·5	46·5	5 above.	32	2356	0	532
	10. IRELAND, SOUTH	59	34	51·0	44·7	47·9	6 above.	41	2761	0	417
	— CHANNEL ISLANDS	53	36	48·4	42·8	45·8	0 (average).	27	3242	0	125

	DISTRICTS. (See p. 204.)	Rainfall.					Bright Sunshine.			
		For the Week.			Since Dec. 30/84.		Hours recorded.		Percentage of the possible Duration.	
		Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Number of Rainy Days.	Total Fall.	For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	**0.** SCOTLAND, NORTH	3	4	6 less.	240	34·1	4	1223	9	28
	1. SCOTLAND, EAST	2	3	3 less.	180	21·6	10	1431	22	33
	2. ENGLAND, N.E.	3	1	6 less.	178	23·3	6	1002	12	23
	3. ENGLAND, EAST	2	less than ½	5 less.	178	27·0	5	1489	10	34
	4. MIDLAND COUNTIES	4	1	5 less.	184	27·2	5	1382	9	32
	5. ENGLAND, SOUTH	3	1	5 less.	169	27·0	4	1481	8	34
Principal Grazing, &c. Districts.	**6.** SCOTLAND, WEST	5	7	5 less.	199	42·3	0	1316	0	30
	7. ENGLAND, N.W.	4	3	5 less.	188	31·1	7	1283	15	30
	8. ENGLAND, S.W.	4	2	8 less.	202	39·1	5	1554	9	36
	9. IRELAND, NORTH	4	4	3 less.	209	33·5	2	1234	3	28
	10. IRELAND, SOUTH	5	4	6 less.	207	39·8	6	1476	12	34
	— CHANNEL ISLANDS	5	2	7 less.	217	31·2	5	1868	9	43

General Remarks.

Weather has been very cloudy and dull over the whole Kingdom, with a great deal of wet fog or mist.

Temperature has about equalled the mean in the "Channel Islands", but has been above it in all other districts, the excess ranging from 2° over the western parts of England to 4° in "England, E.", and as much as 5° or 6° in Ireland and Scotland. The maxima, which were generally recorded on the 16th, varied between 51° in "England, E." and 52° in "England, S." and "England, S.W." to 59° in "Ireland, S." and "Scotland, W." In the last-named district the maximum occurred at midday on the 17th, when a sudden and remarkable rise of temperature took place at Sumburgh Head. The minima were registered on different days in the various districts, and ranged from 27° in "England, N.W." and 29° in "England, S.", to 37° in "Scotland, W."

Rainfall has been less than the mean in all districts. Over England the fall consisted to a great extent of wet fog or misty drizzle.

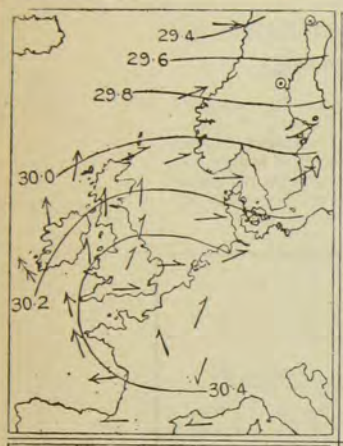
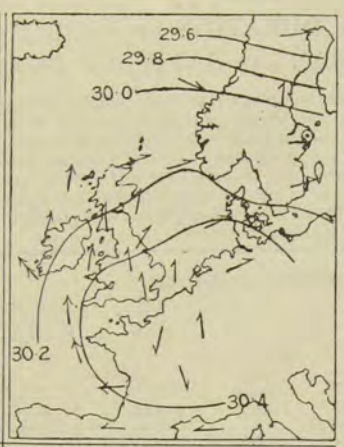
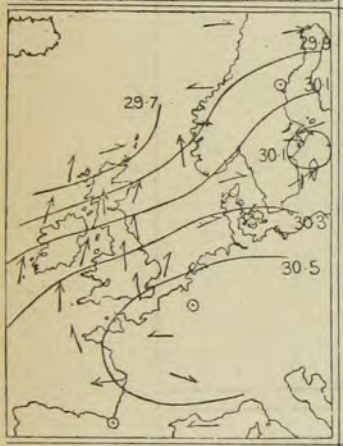
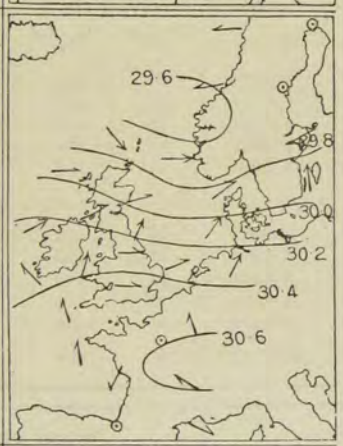
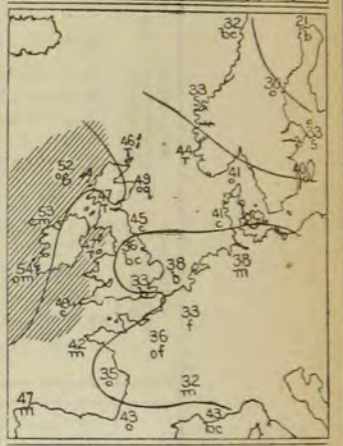
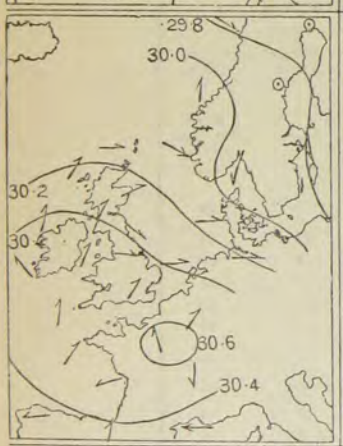
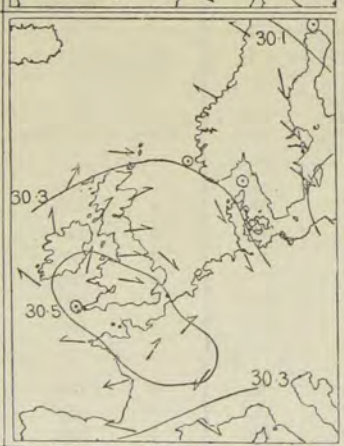
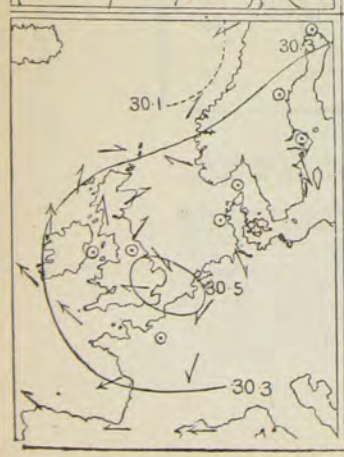
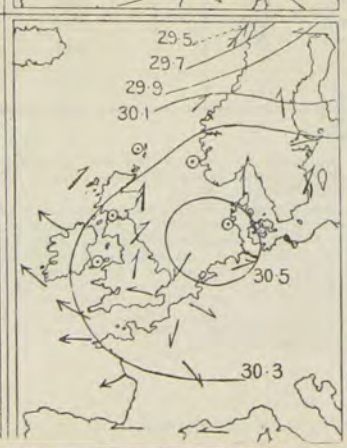
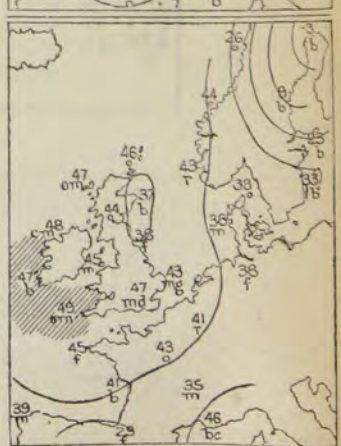
Bright sunshine has been very deficient, the percentage of the possible duration in no district being more than 12. In "Scotland, W." bright sunshine was altogether absent.

Depressions observed.—During the greater part of this period barometric pressure was highest over France and our southern coasts, and the only depressions observed were some large ones some distance to the north-westward or northward of our Islands. Towards the end of the week, however, the high pressure area moved south-eastwards, and shallow depressions advanced over Ireland and England. Southerly to Westerly winds, occasionally increasing to a strong breeze or slight gale in the west and north, were consequently most general over the United Kingdom, but at the close of the time light Northerly breezes had appeared on all except our east and south-east coasts.

* This value has been altered slightly owing to a correction in the Return from Cirencester.

E 20155. 350.—12/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Tuesday, December 15.** *Weather* rainy in the west of Norway, but generally fair elsewhere. Fog or mist, however, very general at our central, southern, and the French stations. Rain falling on our extreme west coasts later. *Temperature* fallen a little in most places; readings ranging from 50° at Valencia to 36° at Loughborough. *Wind* Easterly in France. Southerly over the greater part of our Islands, and Westerly in Scandinavia and Denmark; strong in force over Ireland and the south-west of England, but light or moderate in most other localities. *Sea* high at Valencia and rather rough on our extreme south-western and northern coasts generally. *Barometer* rising at most of the eastern stations, but falling in the west and south-west. Anticyclone lying over the north-east of France, with lowest pressures in the north of Scandinavia. Slight fall taking place on our northern coasts later.	
		**Wednesday, December 16.** *Weather* fine at our south-eastern and many of the French stations, but cloudy or overcast elsewhere, with rain at Sumburgh Head, Ardrossan, and Roche's Point. Slight rain falling later on most parts of our western, south-western, and extreme northern coasts. *Temperature* risen in the west and north, but fallen elsewhere; readings ranging from 54° at Valencia to 33° in London. Subsequently rising to 57° at Aberdeen, Shields, and Parsonstown. *Wind* Easterly in France, but South-Westerly or Southerly over our Islands and the North Sea; strong in force at the Irish and Scotch stations. Subsequently veering to West in north and north-west, and blowing strong gale at Wick. *Sea* rough on our extreme north-west, west, and south-west coasts. *Barometer* rising at our southern and the French stations, but falling elsewhere. Anticyclone lying over France, with large depression to the northward of our Islands. Depression moving eastwards later, and barometer rising briskly on our western and northern coasts.	
		**Thursday, December 17.** *Weather* fair in the north and east of our Islands, but foggy at our western, southern, and many of the French stations. *Temperature* fallen a little in Ireland and Scotland, but risen several degrees over England; readings ranging from 51° at Loughborough and Scilly to 38° at Aberdeen. *Wind* North-Westerly in some parts of Scandinavia, but South-Westerly or Westerly over Great Britain. South-Easterly at Valencia, and Easterly in the west and south of France; light or moderate in force generally. *Sea* moderate to smooth. *Barometer* rising generally. Anticyclone still lying over France, with lowest pressure over the Gulf of Bothnia. Anticyclone extending over England later, but barometer falling a little at our south-western and the French stations.	
		**Friday, December 18.** *Weather* fine in Sweden, Scotland, and the north of Ireland, but cloudy or overcast elsewhere, with fog over the greater part of England, and also in the north of France. *Temperature* risen a little at our south-eastern and the French stations, but fallen elsewhere; readings varying from 49° at Roche's Point and Scilly to 37° at Aberdeen. *Wind* light Southerly or South-Westerly on our north and north-east coasts, but Easterly in the south and fresh or strong South-Easterly in the south-west. *Sea* rough at Valencia, rather rough at the mouth of the Channel, moderate to smooth elsewhere. *Barometer* falling at our western, southern, and the French stations, but rising in most other localities. Anticyclone now lying over our south-east coasts, with lowest pressures off the west of Norway. Fall taking place in the north and east of our Islands later.	

SUMMARY OF WEATHER OVER WESTERN EUROPE—*continued.*

Synoptic Charts.

PRESSURE AND WIND.

8 a.m.	6 p.m.

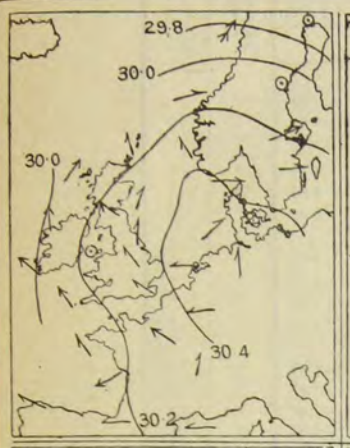
Weather

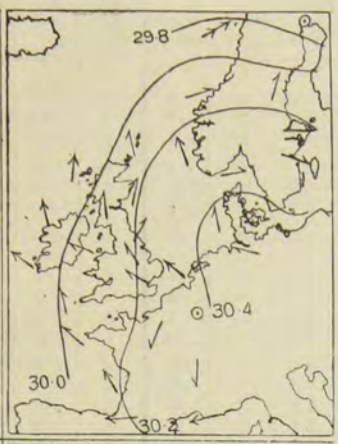
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Saturday, December 19.

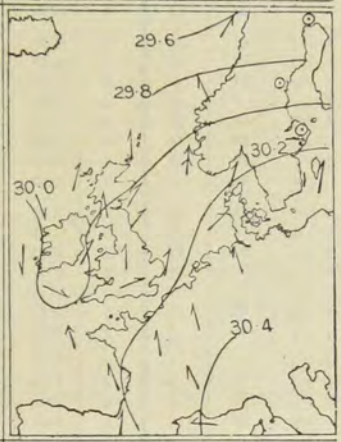
Weather fair over the northern parts of Scotland and Ireland, but cloudy or overcast elsewhere, with mist or fog in many places. Slight rain falling in extreme west later.

Temperature fallen in our Islands and France, but risen quickly in Sweden; readings ranging from 47° at Mullaghmore and Belmullet to 37° at Aberdeen, Leith, and Holyhead. Maxima over England lower than on previous day.

Wind Westerly in Scandinavia and Denmark, but South-Easterly or Southerly elsewhere; fresh or strong in force in the extreme South-West, light or moderate elsewhere.

Sea rough at Valencia, and rather rough at Stornoway and on our south-west coasts generally, but moderate to smooth elsewhere.

Barometer falling generally. Anticyclone lying over North Germany, with relatively low pressure over the north of Scandinavia and our extreme western coasts. Fall continuing all day, but no decided change taking place in general distribution of pressure.



Sunday, December 20.

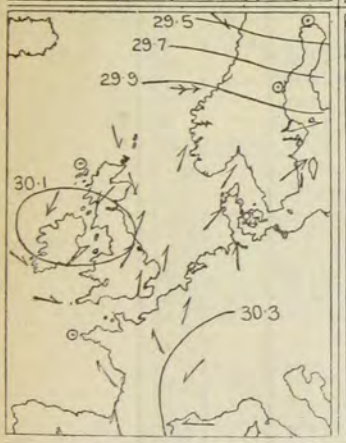
Weather fine at many of the Continental stations, but cloudy or overcast in our Islands, with mist and drizzling rain locally.

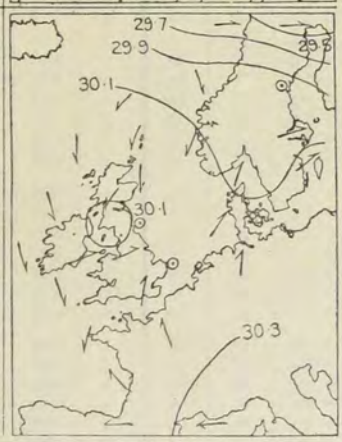
Temperature fallen a few degrees over Scandinavia, Denmark, and the Netherlands, but risen slightly in our Islands; readings ranging from 52° at Scilly to 38° at Shields and York.

Wind Northerly in the west of Ireland, but Southerly elsewhere; light or moderate in force in most places, but strong in the Hebrides. Subsequently shifting to the Northward at nearly all the Irish stations.

Sea rough at Stornoway and rather rough at Scilly, moderate to smooth elsewhere.

Barometer falling at all but our extreme western and the French stations. Large anticyclone lying over Central Europe, with shallow depressions over our west and north-west coasts. Rise taking place in our Islands later.





Monday, December 21.

Weather cloudy or overcast in most places, with rain in the south of Scotland and some parts of Ireland. Rain falling later in many parts of the kingdom.

Temperature fallen a little on our western and northern coasts; readings ranging from 47° at Scilly, Hurst Castle, and Jersey to 34° at Stornoway. Frost occurring in north of Scotland at night.

Wind South-Easterly in France and Southerly on our east and south-east coasts, but Northerly in Ireland, and North-Westerly in Scotland; light or moderate in force generally. Subsequently shifting to North in Scotland.

Sea rather rough at Scilly, moderate to smooth elsewhere.

Barometer falling at most of the continental stations, but rising in our Islands. Pressure highest in the south-east of France, and lowest in the north of Scandinavia, with large shallow depression over our Islands. Depression moving slowly eastwards later, and barometer falling slightly in south-east of England.

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 201 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	59	37	48·3	41·6	45·1	+ 4·9	23	1	5	0·82	−0·09	*	*
	Stornoway	53	32	47·9	42·4	45·3	+ 5·7	23	0	4	0·32	−0·95	4	9
	Wick	54	35	47·9	40·4	44·3	+ 5·1	23	4	1	0·08	−0·62	*	*
1. SCOTLAND, E.	Nairn	56	32	49·1	40·7	45·1	+ 6·9	27	4	1	0·07	−0·37	*	*
	Aberdeen	57	34	47·4	36·7	42·3	+ 4·4	24	15	3	0·75	0·00	10	22
	Leith	56	33	47·7	40·6	44·3	+ 6·1	22	4	1	0·06	−0·38	*	*
2. ENGLAND, N.E.	Alnwick Castle	54	31	46·0	33·3	42·3	+ 4·1	18	10	2	0·24	?	*	*
	Durham	56	32	46·1	36·0	41·3	+ 3·1	11	26	3	0·08	−0·72	9	18
	Shields	57	36	46·6	38·3	42·6	+ 3·3	20	10	2	0·10	−0·56	*	*
	Scarborough ℳ	51	34	45 6	37·6	41·8	+ 3·5	10	19	4	0·11	−0·60	*	*
	York	53	34	46·4	36·3	41·6	+ 2·9	12	25	3	0·12	−0·43	3	6
	Spurn Head	48	37	44·1	38·1	41·2	+ 2·8	6	16	1	0·04	?	*	*
3. ENGLAND, E.	Hillington ℳ	50	33	45·9	37·5	41·9	+ 3·7	11	20	0	0·02‖	−0·58	4	8
	Yarmouth	49	36	45·7	38·3	42·2	+ 3·0	17	10	1	0·02	−0·64	*	*
	Geldeston	50	35	45·9	39·0	42·6	+ 3·4	17	8	2	0·06	−0·46	6	11
	Cambridge	51	30	47·3	36·9	42·3	+ 3·4	24	14	1	0·03	−0·43	6	11
	Rothamsted	50	32	46·5	37·8	42·3	+ 4·1	20	12	7	0·09	−0·51	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)§	54	31	46·4	34·9	40·9	+ 1·6	12	30	4	0·10	−0·48	1	2
	Loughborough	52	32	46·9	36·1	41·7	+ 3·5	14	25	3	0·03	−0·52	*	*
	Leicester	52	34	46·7	38·8	42·9	+ 5·0	20	9	3	0·06	−0·48	5	10
	Cheadle ℳ	49	30	45·2	36·1	40·8	+ 2·7	9	24	4	0·13	?	*	*
	Churchstoke ℳ	52	31	46·6	36·8	41·9	+ 3·2	13	23	3	0·05	?	8	16
	Hereford ℳ	52	32	46·9	35·8	42·1	+ 3·1	23	15	5	0·13	−0·47	*	*
	Cirencester	49	29	45·4	35·6	40·7	+ 1·7	10	26	5	0·06	−0·66	4	8
	Oxford	51	34	46·6	38·1	42·5	+ 3·2	20	11	2	0·03	−0·46	5	9
5. ENGLAND, S.	London†	52	32	48·9	38·3	43·8	+ 4·4	28	10	1	0·02	−0·50	4	7
	Marlborough ℳ	49	32	45·7	37·9	42·0	+ 3·3	10	11	3	0·05	−0·60	3	6
	Strathfield Turgiss ℳ	51	29	47·1	37·4	42·4	+ 3·2	22	13	3	0·15	−0·37	*	*
	Dungeness	49	37	47·0	41·0	44·1	+ 2·4	19	3	2	0 03	?	*	*
	Hastings (St. Leonard's)	49	38	46·5	40·8	43·8	+ 2·2	18	3	3	0·13	−0·57	7	13
	Southampton	50	33	47·5	39·7	43·8	+ 4·2	22	6	4	0·11	−0·66	2	4
	Hurst Castle	50	39	47·9	41·9	45·0	+ 3·1	21	0	5	0·26	−0·41	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	55	37	49·4	43·6	46·6	+ 6·3	32	0	6	1·23	?	*	*
	Glasgow	52	38	46·7	41·4	44·2	+ 5·3	18	2	4	0·49	−0·54	0	0
	Ardrossan	51	40	46·1	43·4	44·9	+ 5·9	20	0	5	0·38	−0·57	*	*
	Douglas (Isle of Man)	54	41	48·1	43·3	45·8	+ 4·5	27	0	6	0·60	−0·51	0	0
7. ENGLAND, N.W.	Newton Reigny (Penrith)	54	27	47·7	34·8	41·0	+ 3·2	13	30	4	0·12	?	7	14
	Barrow-in-Furness	51	36	46·1	39·0	42·7	+ 1·5	18	8	5	0·30	?	*	*
	Stonyhurst	48	35	45·7	35·9	41·0	+ 2·0	10	25	3	0·42	−0·69	6	12
	Blackpool ℳ	48	32	45·3	37·5	41·6	+ 0·2	9	19	5	0·28	−0·47	4	8
	Manchester	53	36	46·9	38·4	42·8	+ 3·3	21	10	3	0·54	−0·21	*	*
	Liverpool Obsy (Bidston)	52	35	46·3	39·4	43·0	+ 2·2	18	7	3	0·17	−0·47	*	*
	Llandudno ℳ	55	37	49·7	39·5	44·8	+ 2·6	30	7	1	0·21	−0·58	12	24
	Holyhead	50	32	47·3	37·7	42·7	− 1·3	23	12	4	0·27	−0·63	*	*
8. ENGLAND, S.W.	Llandovery	50	30	47·3	37·0	42·4	+ 1·7	24	14	4	0·28	?	*	*
	Pembroke	50	43	48·0	44·6	46·4	+ 3·2	31	0	3	0·18	−0·77	7	13
	Arlington (N. Devon)	50	35	46·7	38·4	42·7	+ 2·0	20	10	5	0·29	?	*	*
	Cullompton ℳ	51	30	47·8	38·7	43·4	+ 2·2	24	9	4	0·27	?	4	7
	Falmouth	52	42	49·3	44·4	47·0	+ 2·1	35	0	4	0·14	−1·08	4	7
	Plymouth	52	39	49·9	42·5	46·4	+ 3·3	31	0	3	0·35	−0·55	5	9
	Prawle Point	50	40	48·3	42·7	45·6	+ 2·5	25	0	3	0·14	?	*	*
9. IRELAND, N.	Malin Head	54	43	49·7	43·7	46·8	+ 6·0	34	0	3	0·23	?	*	*
	Londonderry	57	39	?51·6	43·1	?47·5	+?6·8	?39	0	2	0·69	−0·19	*	*
	Mullaghmore	56	41	51·4	44·7	48·2	+ 6·2	43	0	4	0·62	?	*	*
	Belmullet	52	41	49·1	44·1	46·7	+ 2·7	33	0	5	0·52	?	*	*
	Markree Castle	54	36	48·1	42·8	45·6	+ 4·4	25	0	5	0·73	−0·04	3	6
	Brookeborough	53	38	48·0	42·8	45·5	+ 5·5	25	0	2	0·37	?	*	*
	Armagh	55	40	48·4	43·6	46·1	+ 5·7	29	0	3	0·20	−0·47	0	0
	Donaghadee	56	42	48·1	43·6	46·0	+ 4·6	28	0	6	0·22	−0·43	*	*
	Edgeworthstown	55	40	48·4	42·7	45·7	+ 5·7	26	0	3	0·31	?	*	*
10. IRELAND, S.	Dublin	58	41	51·1	43·9	47·6	+ 6·3	39	0	2	0·12	−0·46	10	20
	Parsonstown	57	42	50·1	44·1	47·2	+ 7·0	36	0	5	0·24	−0·44	3	6
	Kilkenny	54	42	49·8	44·5	47·3	+ 7·3	37	0	4	0·22	?	*	*
	Waterford	51	39	48·9	44·7	46·9	+ 4·7	34	0	6	0·57	−0·44	*	*
	Roche's Point	55	39	51·9	46·1	49·1	+ 5·9	50	0	6	0·78	−0·33	*	*
	Valencia	55	39	52·3	45·9	49·2	+ 3·5	50	0	7	0·84	−0·56	5	9
	Killarney	56	34	51·3	45·1	48·3	+ 4·9	44	0	3	0·43	?	*	*
	Foynes	59	37	52·4	43·1	47·9	+ 5·9	41	0	4	0·10	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	44	51·1	46·0	48·7	+ 1·5	47	0	6	0·27	−0·67	*	*
	Jersey (Noirmont)	48	36	45·7	39·6	42·8	− 0·9	16	7	3	0·07	−0·80	5	9

Stations marked ℳ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ The Bright Sunshine values given for Bawtry are recorded at Worksop.

‖ Chiefly mist.

Erratum.—The "Difference from the Mean" in the Temperature at Newton Reigny published in last week's report should have been "−6·0."

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.
PUBLISHED BY J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL, AND E STANFORD, 55, CHARING CROSS.

VOL. II. No. 52.] *New Series.* WEEK ENDING MONDAY, 28TH DECEMBER, 1885. [*Price 4d.* [*Annual subscription, post paid, £1 1s. 2d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the last page of this number. The *Daily Mean Temperature* is obtained from the maxima and minima by a suitable correction determined for each month. The *Mean Temperature for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years observations (1861-80), calculated at the Meteorological Office. *Accumulated Temperature* indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees for an inversely proportional number of hours. The *Mean Rainfall for the Week* is the mean rainfall obtained from 15 years observation (1866-80). A *Rainy Day* is one on which at least one hundredth of an inch of rain has fallen. The foregoing remarks apply also to the table on the last page.

A more detailed explanation will be found at the back of the title page issued with No. 1 of this series.

	DISTRICTS (See p. 208.)	Temperature of the Air.								
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.		
				Averages of				Above 42°		Below 42°
		Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.		For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
		°	°	°	°	°	°	Day deg.	Day deg.	Day deg.	Day deg.
Principal Wheat-producing Districts.	**0.** SCOTLAND, NORTH	49	30	45·6	37·3	41·6	2 above.	10	1554	20	772
	1. SCOTLAND, EAST	50	30	46·5	33·2	41·6	4 above.	13	2165	25	851
	2. ENGLAND, N.E.	50	28	44·3	34·4	39·5	1 above.	6	2313	29	652
	3. ENGLAND, EAST	50	26	42·6	32·7	37·9	1 below.	2	2707	35	797
	4. MIDLAND COUNTIES	50	25	43·2	32·4	38·0	1 below.	3	2654	36	828
	5. ENGLAND, SOUTH	49	23	43·4	32·1	38·0	2 below.	4	3055	37	573
Principal Grazing, &c. Districts.	**6.** SCOTLAND, WEST	49	28	45·4	35·9	41·3	2 above.	10	2127	21	628
	7. ENGLAND, N.W.	50	21	44·0	35·0	39·7	1 below.	6	2340	27	595
	8. ENGLAND, S.W.	52	23	45·0	33·5	39·5	3 below.	8	2781	34	439
	9. IRELAND, NORTH	49	23	45·3	37·2	41·4	1 above.	9	2365	20	552
	10. IRELAND, SOUTH	53	23	45·7	35·4	40·8	1 below.	10	2771	27	444
	— CHANNEL ISLANDS	52	31	47·2	40·9	44·2	1 below.	20	3262	3	128

	DISTRICTS. (See p. 208.)	Rainfall.					Bright Sunshine.			
		For the Week.			Since Dec. 30/84.		Hours recorded.		Percentage of the possible Duration.	
		Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Number of Rainy Days.	Total Fall.	For the Week.	Since Dec. 30/84.	For the Week.	Since Dec. 30/84.
			10ths of In.	10ths of In.		Ins.				
Principal Wheat-producing Districts.	**0.** SCOTLAND, NORTH	6	9	0 (average).	246	35·0	0	1223	0	28
	1. SCOTLAND, EAST	2	1	5 less.	182	21·7	10	1441	22	33
	2. ENGLAND, N.E.	2	1	5 less.	180	23·4	4	1006	8	23
	3. ENGLAND, EAST	4	3	3 less.	182	27·3	10	1499	19	34
	4. MIDLAND COUNTIES	1	2	4 less.	185	27·4	3	1385	6	31
	5. ENGLAND, SOUTH	2	2	5 less.	171	27·2	9	1490	16	34
Principal Grazing, &c. Districts.	**6.** SCOTLAND, WEST	4	5	8 less.	203	42·8	6	1322	13	30
	7. ENGLAND, N.W.	3	3	6 less.	191	31·4	4	1287	8	29
	8. ENGLAND, S.W.	3	3	7 less.	205	39·4	8	1562	15	36
	9. IRELAND, NORTH	3	3	5 less.	212	33·8	8	1242	16	28
	10. IRELAND, SOUTH	2	2	7 less.	209	40·0	9	1485	17	34
	— CHANNEL ISLANDS	2	1	7 less.	219	31·3	15	1883	27	43

General Remarks.

Weather has been cloudy or dull generally. Mist and fog were again prevalent during the greater part of the week, but scarcely any rain fell (except in the extreme north) until towards the end of the time, when showers of rain, hail, sleet, or snow were experienced.

Temperature has been 1° above the mean in "Ireland, S." and "England, N.E.", and from 2° to 4° above in Scotland, but in all other parts of the Kingdom it has varied between 1° and 3° below. The maxima, which were registered on different days in the various districts, ranged from 49° in the north and west of Scotland, and in the south of England and north of Ireland, to 53° in "Ireland, S." The minima, which were recorded during the first half of the period, varied between 21° in "England, N.W.", 23° in the south and south-west of England and over Ireland, and 31° in the "Channel Islands".

Rainfall has equalled the mean in "Scotland, N.", but in all other districts it has been considerably below.

Bright sunshine has again been very little prevalent. In "Scotland, N." it was quite absent, while elsewhere the percentage of the possible duration ranged from 6 in the "Midland Counties" to 22 in "Scotland, E." and 27 in the "Channel Islands".

Depressions observed.—The distribution of pressure over our Islands was mainly anticyclonic, while depressions, some of them large and deep, travelled eastwards or north-eastwards over Scandinavia. Towards the close of the period, however, an extensive depression, whose track lay rather more to the southward, brought a rapid fall of the barometer to all the more northern parts of our Islands, and caused the wind, which had generally been light or moderate between west and north-west or north, to shift to the Westward or South-westward and increase to a gale on nearly all our coasts, accompanied by squalls of rain, hail, or sleet.

ERRATA.—In the report for the week ending December 14th, the difference from the mean tem perature in "England, S.W." should read "6 below." In the "General Remarks" for last week "Scotland, W.", in the eighth line, should read "Scotland, N."

E 20214. 350.—12/85. Wt. 58. E. & S.

II.—SUMMARY OF WEATHER OVER WESTERN EUROPE.

Synoptic Charts.

PRESSURE AND WIND.

8 a.m. | **6 p.m.**

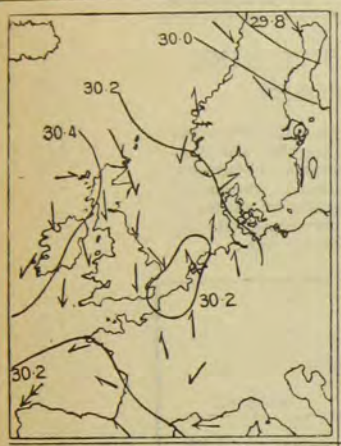
Weather

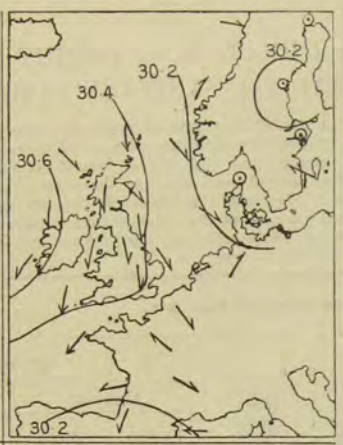
During the 24 hours succeeding 8 a.m. on the dates given.

Synoptic Charts.

TEMPERATURE AND WEATHER

at 8 a.m.





Tuesday, December 22.

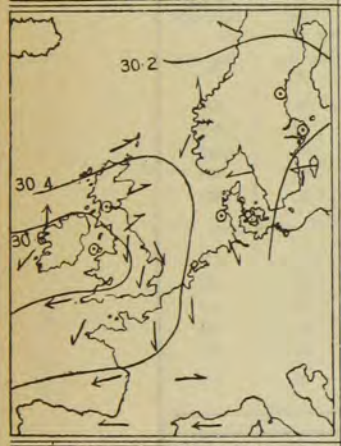
Weather fair at our western and northern stations as well as in the north of Scandinavia, but cloudy or overcast elsewhere, with fog over England and the north-east of France.

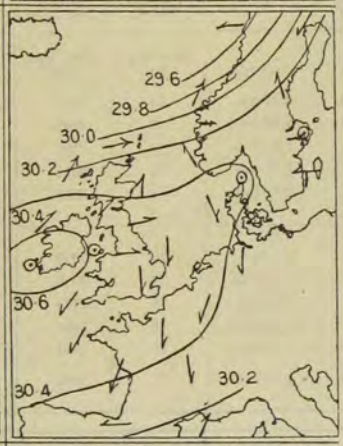
Temperature fallen generally—most over Central England; readings ranging from 48° at Scilly to 35° at York, Oxford, and Parsonstown and 34° at Wick. Frost occurring at night in many parts of the Kingdom.

Wind variable over Central and South-eastern England and Easterly in the west and south of France, but chiefly Northerly elsewhere; light or moderate in force generally. Northerly breezes subsequently extending to our south-east coasts.

Sea rather rough at Scilly; moderate to smooth elsewhere.

Barometer rising at nearly all stations. Anticyclone lying off our extreme western coasts, with area of relatively low pressure over the north of Sweden, the south-east of England, and the north of Spain. Anticyclone subsequently extending eastwards.





Wednesday, December 23.

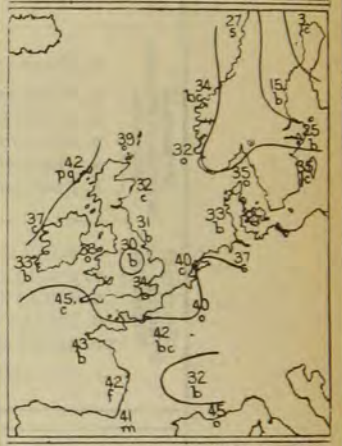
Weather fine on all but our extreme north and north-west coasts, where dull and showery. Cloudy unsettled weather extending slowly southwards later, but sky in extreme south remaining clear.

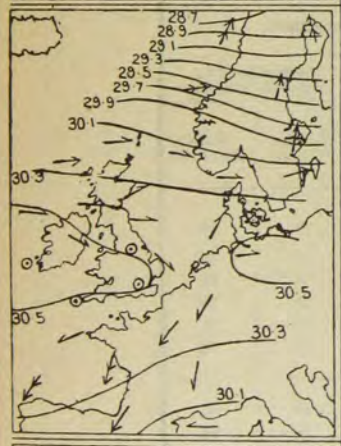
Temperature risen slightly in the north, but fallen elsewhere; readings ranging from 45° at Scilly and Jersey to 27° at Parsonstown. Sharp frost occurring over England at night.

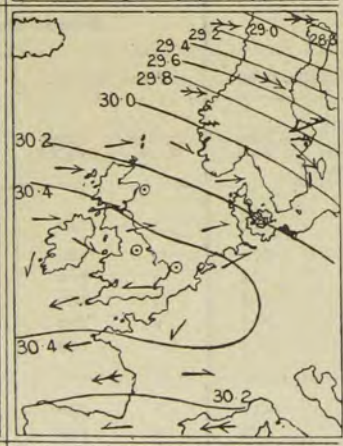
Wind South-Westerly on our north and north-west coasts, but North-Easterly at our southern and the French stations; light or moderate in force generally, but freshening in the north of Scotland.

Sea moderate at Stornoway and Scilly; slight or smooth elsewhere.

Barometer rising at all but our extreme northern stations. Anticyclone lying over Ireland and Wales, with relatively low pressures to the northward of our Islands. Deep depression subsequently approaching Norway.







Thursday, December 24.

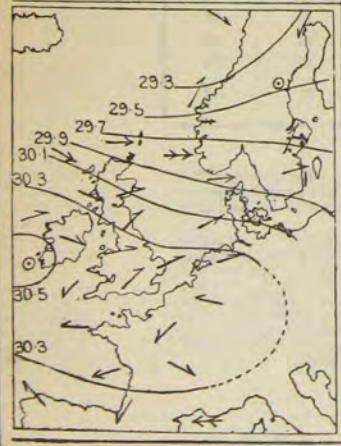
Weather dull on our north-west coasts and foggy over England, but fair or fine elsewhere.

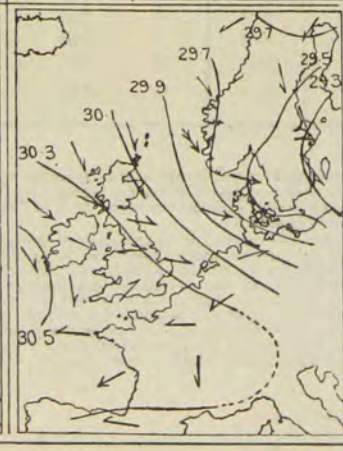
Temperature risen at all but our southern and the French stations; readings ranging from 48° at Stornoway and Wick to 30° at Loughborough, Hurst Castle, Cambridge, and London. Sharp frost over south-east of England at night.

Wind Westerly over Scandinavia, Denmark, and the northern parts of our Islands, but North-Easterly at our southern and the French stations; strong to a gale in force over Scandinavia and the Bay of Biscay, but light or moderate elsewhere.

Sea high off the west of Norway, but slight or smooth on our own coasts.

Barometer falling generally. Areas of high pressure lying over Ireland, the south of England, and North Germany, with relatively low readings in the south of France, and a deep depression over the north of Scandinavia. Depression subsequently moving away, and barometer rising in Norway.





Friday, December 25.

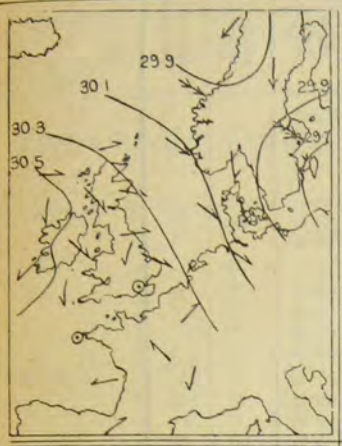
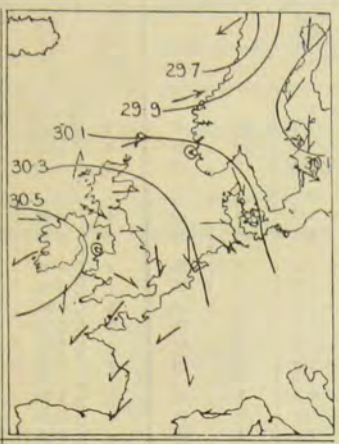
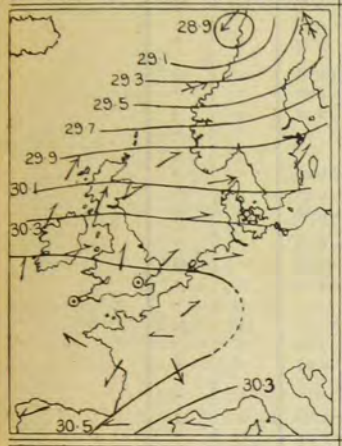
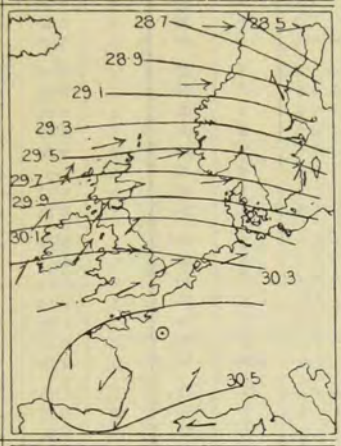
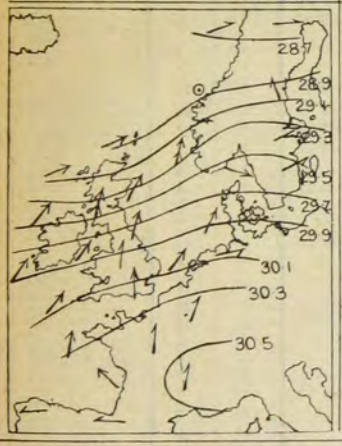
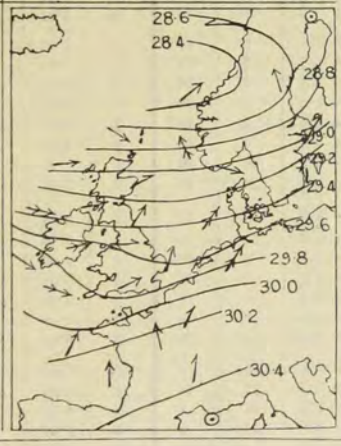
Weather fine on our north-east coasts and also in the south of England and west of France, but cloudy elsewhere, with rain in the west of Norway, and misty drizzle in many other localities.

Temperature fallen quickly in the north of Scandinavia and slightly in the south of England, but risen elsewhere; readings ranging from 48° at Belmullet to 28° at Dungeness.

Wind Westerly at most of our northern stations, but Easterly on our southern and the French coasts, strong to a gale at Skudesnaes and Wick, as well as over the Bay of Biscay.

Sea rough in the extreme north, but moderate to smooth elsewhere.

Barometer falling in most places. Anticyclone lying over the south of Ireland, with depression off the west of Norway. Depression moving eastwards later, and barometer rising briskly in north.

Synoptic Charts. Pressure and Wind. 8 a.m.	Synoptic Charts. Pressure and Wind. 6 p.m.	Weather During the 24 hours succeeding 8 a.m. on the dates given.	Synoptic Charts. Temperature and Weather at 8 a.m.
		**Saturday, December 26.** *Weather* showery on our extreme north-west coasts and foggy over central England, but fair or fine elsewhere. Rain falling in north of Scotland later. *Temperature* fallen in the north and east, but risen several degrees in the south; readings ranging from 49° at Scilly to 38° at Leith and in London. Frost occurring over England at night. *Wind* Westerly in the north of Scotland, but North-Westerly or Northerly elsewhere; light or moderate in force at all but the Scandinavian stations, where strong to a gale. Subsequently backing to South-West on our northern coasts. *Sea* rather rough at Skudesnaes and Scilly but slight or smooth elsewhere. *Barometer* rising in most places. Anticyclone lying off the west of Ireland, with areas of relatively low pressure over the Baltic and north-west of Norway. Fall taking place in north later, and larger depression appearing near Bodö.	
		**Sunday, December 27.** *Weather* fine in the east of Scotland, but cloudy or overcast elsewhere, with rain in Norway and fog at some of our southern stations. Rain falling later on our western and extreme northern coasts. *Temperature* fallen a little over England, but risen elsewhere; readings ranging from 47° at Stornoway to 30° in London and at Oxford. Brisk rise taking place over England later. *Wind* Easterly or North-Easterly over the Channel and France, but generally South-Westerly elsewhere; strong in force on our extreme northern coasts. Subsequently increasing to gale in north of Scotland. *Sea* rough in the north, but moderate to smooth in all other localities. *Barometer* falling at all but our southern and the French stations. Large anticyclone lying over France and the southern parts of our Islands, with deep depression over the north-west of Norway. Depression subsequently moving north-eastwards, but new disturbance approaching our northern coasts.	
		**Monday, December 28.** *Weather* fair on our east and south-east coasts, but dull elsewhere, with rain in the north-west and south. Rain or hail extending later to all parts of the kingdom, and heavy snow falling in Scotland at night. *Temperature* risen at all but the French stations; readings ranging from 50° at Valencia to 39° at Stornoway. Sharp frost in Scotland at night. *Wind* chiefly South-Westerly; strong to a gale in the North and North-West, but fresh in force in the East and South. Gale extending to all coasts later. *Sea* high at Valencia, and rough in the west and north generally. *Barometer* falling generally, rapidly in the north of Scotland. Highest pressures now lying over the south-east of France, with deep depression to the northward of our Islands, depression subsequently moving eastwards, but subsidiary disturbance advancing over England. Brisk rise taking place in west and north in evening.	

Explanation of Charts.—In the two left-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

III.—DATA from which the SUMMARY on page 205 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of the day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°				Inches.	Inches.		
0. SCOTLAND, N.	Sumburgh Head	48	31	45·6	37·6	41·8	+ 1·7	10	19	7	0·60	−0·30	*	*
	Stornoway	49	32	45·9	37·9	42·1	+ 2·7	18	11	7	1·11	−0·11	0	0
	Wick	48	30	45·3	36·4	41·0	+ 1·8	9	23	5	1·06	+0·41	*	*
1. SCOTLAND, E.	Nairn												*	*
	Aberdeen	50	30	46·4	35·1	41·0	+ 3·3	12	29	3	0·07	−0·63	10	22
	Leith	49	30	46·6	37·3	42·1	+ 4·0	20	13	1	0·10	−0·35	*	*
2. ENGLAND, N.E.	Alnwick Castle	48	28	44·9	35·0	40·2	+ 2·1	8	28	2	0·21	?	*	*
	Durham	49	29	44·1	32·9	38·7	+ 0·9	6	35	1	0·03	−0·71	7	14
	Shields	50	29	45·6	34·7	40·2	+ 1·0	10	28	1	0·05	−0·55	*	*
	Scarborough ⚓	47	34	43·9	36·0	40·1	+ 1·9	5	23	3	0·11	−0·54	*	*
	York	49	23	43·7	32·1	38·1	− 0·2	5	37	2	0·06	−0·47	1	2
	Spurn Head	47	34	43·7	35·6	39·8	+ 1·4	5	25	2	0·07	?	*	*
3. ENGLAND, E.	Hillington ⚓	48	28	42·2	32·6	37·6	− 0·3	1	34	5	0·39	−0·16	8	15
	Yarmouth	45	29	41·7	34·0	38·0	− 1·1	0	28	3	0·28	−0·33	*	*
	Geldeston	46	28	43·3	33·6	38·8	− 0·3	4	33	4	0·21	−0·28	12	23
	Cambridge	48	26	42·3	31·6	37·2	− 1·2	1	38	3	0·19	−0·23		
	Rothamsted	50	27	43·5	31·5	37·7	− 0·4	4	39	6	0·33	−0·27	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)§	47	29	44·7	34·0	39·6	+ 0·4	8	32	1	0·17	−0·38	0	0
	Loughborough	47	29	43·1	33·0	38·3	+ 0·3	3	34	1	0·21	−0·33	*	*
	Leicester	44	30	42·2	33·5	38·0	+ 0·3	1	31	1	0·15	−0·37	2	4
	Cheadle ⚓	46	27	42·7	32·9	38·0	+ 0·2	2	34	2	0·29	?	*	*
	Churchstoke ⚓	48	25	43·0	31·8	37·6	− 0·8	3	38	2	0·26	?	1	2
	Hereford ⚓	50	25	44·7	31·0	38·1	− 0·6	8	42	0	—	−0·62	*	*
	Cirencester	47	26	42·4	30·9	36·9	− 1·9	1	41	1	0·17	−0·57	7	13
	Oxford	49	30	42·4	31·7	37·3	− 1·9	1	38	1	0·24	−0·26	6	11
5. ENGLAND, S.	London†	49	27	43·4	32·1	38·0	− 1·2	4	37	2	0·28	−0·24	1	2
	Marlborough ⚓	48	28	42·3	31·3	37·0	− 1·3	1	39	1	0·11	−0·59	10	19
	Strathfield Turgiss ⚓	44	23	41·4	28·9	35·4	− 3·6	0	46	2	0·14	−0·41	*	*
	Dungeness	47	26	44·0	32·9	38·7	− 2·6	6	35	2	0 16	?	*	*
	Hastings (St. Leonard's)	47	31	43·8	35·8	40·0	− 1·2	5	24	2	0·10	−0·60	14	23
	Southampton	49	26	43·3	32·1	37·9	− 1·5	4	37	2	0·45	−0·35	9	17
	Hurst Castle	49	26	45·7	31·4	38·8	− 2·6	10	41	3	0·19	−0·50	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	49	30	46·3	38·2	42·4	+ 2·3	19	11	7	1·25	?	*	*
	Glasgow	48	28	44·4	35·1	39·9	+ 1·1	7	27	5	0·16	−0·88	5	11
	Ardrossan	49	29	46·1	37·9	42·2	+ 3·0	19	11	3	0·31	−0·67	*	*
	Douglas (Isle of Man)	48	29	44·8	36·2	40·7	− 0·5	8	24	2	0·22	−0·93	7	14
7. ENGLAND, N.W.	Newton Reigny (Penrith)	46	21	42·0	30·8	36·6	− 0·8	0	38	2	0·36	?	4	8
	Barrow-in-Furness	49	30	44·6	36·3	40·6	− 0·1	7	23	3	0·19	?	*	*
	Stonyhurst	48	25	42·7	32·7	37·9	− 0·8	2	34	2	0·30	−0·78	5	10
	Blackpool ⚓	47	25	44·3	34·5	39·6	− 1·5	6	29	3	0·17	−0·58	6	12
	Manchester	48	28	42·4	34·1	38·4	− 1·0	1	29	4	0·29	−0·44	*	*
	Liverpool Obsy (Bidston)	49	32	44·4	38·4	41·5	+ 0·9	7	15	2	0·23	−0·37	*	*
	Llandudno ⚓	50	31	45·5	36·8	41·3	− 0·9	10	22	?	?	?	1	2
	Holyhead	49	32	46·4	36·6	41·7	− 1·9	12	23	3	0·21	−0·69	*	*
8. ENGLAND, S.W.	Llandovery	49	23	44·1	28·4	36·6	− 3·8	6	52	3	0·58	?	*	*
	Pembroke	49	36	46·6	40·9	44·4	+ 1·3	21	3	4	0·15	−0·76	4	8
	Arlington (N. Devon)	48	28	43·1	30·9	37·2	− 3·4	3	41	3	0·40	?	*	*
	Cullompton ⚓	50	26	43·7	29·7	37·0	− 4·2	5	46	3	0·34	?	4	7
	Falmouth	50	34	45·0	38·1	41·7	− 2·5	8	17	2	0·41	−0·87	14	25
	Plymouth	52	29	45·8	32·4	39·4	− 3·4	11	38	3	0·17	−0·74	10	19
	Prawle Point	52	31	46·4	34·0	40·5	− 2·2	12	23	3	0·25	?	*	*
9. IRELAND, N.	Malin Head	48	36	45·9	41·0	43·6	+ 3·1	15	3	5	0·23	?	*	*
	Londonderry	48	32	46·4	37·3	42·0	+ 1·3	12	13	5	0·33	−0·57	*	*
	Mullaghmore	48	34	46·6	40·1	43·5	+ 1·5	18	5	3	0·28	?	*	*
	Belmullet	49	36	46·7	40·9	43·9	+ 0·7	18	3	4	0·40	?	*	*
	Markree Castle	48	25	44·6	33·7	39·4	− 1·8	7	33	5	0·48	−0·30	9	18
	Brookeborough	48	24	44·3	34·0	39·4	− 0·7	6	31	1	0·39	?	*	*
	Armagh	48	27	44·6	35·5	40·2	0·0	7	26	2	0·24	−0·45	7	14
	Donaghadee	48	31	45·3	38·7	42·1	+ 0·9	15	9	2	0·22	−0·45	*	*
	Edgeworthstown	47	23	43·7	33·6	38·9	− 0·8	5	32	2	0·21	?	*	*
10. IRELAND, S.	Dublin	50	28	44·6	36·9	40·9	− 0·3	7	21	1	0·11	−0·45	5	10
	Parsonstown	49	25	44·7	34·3	39·7	− 0·4	8	30	2	0·13	−0·57	10	19
	Kilkenny	49	24	42·8	34·4	38·8	− 1·1	2	29	2	0·13	?	*	*
	Waterford	49	28	43·6	34·9	39·4	− 2·6	4	27	2	0·26	−0·79	*	*
	Roche's Point	50	34	47·1	33·7	45·1	− 0·1	22	9	2	0·18	−0·47	*	*
	Valencia	53	30	48·7	37·4	43·3	− 2·2	28	13	3	0·26	−1·17	12	23
	Killarney	52	23	44·8	32·5	38·9	− 4·4	8	37	2	0·31	?	*	*
	Foynes	53	26	49·2	34·4	42·1	+ 0·3	33	21	3	0·23	?	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	40	48·4	42·7	45·7	− 1·3	26	0	2	0·12	−0 82	*	*
	Jersey (Noirmont)	49	31	45·9	39·0	42·6	− 0·7	17	8	2	0·14	−0·71	15	27

Stations marked ⚓ are in connection with the Royal Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Meteorological Office, Victoria Street.

‡ The annual rainfall at Laudale being much greater than at the other stations in "Scotland, W.", and no average for the years 1866–80 being obtainable for this station, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Note.—The observations from Nairn are at present incomplete.

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1885.

VOL. II. APPENDIX I.] *New Series.* FIRST QUARTER—JANUARY TO MARCH. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE FIRST QUARTER OF THE TWENTY YEARS, 1866 TO 1885.

	YEARS.	Principal Wheat-producing Districts. 0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		Principal Grazing, &c. Districts. 6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, &c. Districts.		Channel Islands.		Means for the British Islands generally.	
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
RAINFALL (in Inches).	1866	—	14·8	—	11·3	—	5·8	—	7·4	—	7·1	—	11·4	—	8·6	—	15·4	—	13·4	—	16·9	—	13·7	—	12·0	—	14·3	—	—	—	11·5
	1867	—	10·7	—	9·5	—	5·4	—	5·7	—	8·1	—	8·8	—	7·5	—	9·9	—	11·1	—	15·2	—	11·8	—	10·7	—	11·7	—	—	—	9·6
	1868	—	19·1	—	11·7	—	4·9	—	5·4	—	6·7	—	7·5	—	7·2	—	17·6	—	13·3	—	11·9	—	13·0	—	10·5	—	13·3	—	—	—	10·3
	1869	—	11·8	—	8·9	—	6·2	—	6·2	—	7·7	—	9·0	—	7·6	—	11·4	—	12·2	—	14·0	—	12·1	—	12·1	—	12·4	—	—	—	10·0
	1870	—	6·4	—	6·7	—	4·8	—	3·9	—	5·1	—	6·0	—	5·3	—	8·8	—	9·0	—	10·7	—	8·6	—	9·7	—	9·4	—	—	—	7·4
	1871	—	9·4	—	6·9	—	3·8	—	3·9	—	4·8	—	6·1	—	5·1	—	11·7	—	8·7	—	10·0	—	10·7	—	9·4	—	10·1	—	—	—	7·6
	1872	—	8·2	—	11·2	—	7·8	—	6·1	—	9·8	—	10·1	—	9·0	—	15·2	—	14·0	—	19·5	—	12·7	—	13·1	—	14·9	—	—	—	12·0
	1873	—	7·9	—	7·2	—	5·3	—	5·4	—	7·1	—	8·4	—	6·7	—	10·6	—	9·6	—	14·1	—	8·8	—	11·9	—	10·9	—	—	—	8·8
	1874	—	11·5	—	6·5	—	3·5	—	3·1	—	5·7	—	4·4	—	4·6	—	8·6	—	11·0	—	12·5	—	8·4	—	7·7	—	9·6	—	—	—	7·1
	1875	—	8·4	—	7·0	—	3·9	—	3·7	—	5·8	—	6·7	—	5·4	—	9·8	—	8·7	—	12·6	—	7·1	—	10·2	—	9·7	—	—	—	7·6
	Means for 10 years, 1866-75	—	10·8	—	8·7	—	5·1	—	5·1	—	6·8	—	7·8	—	6·7	—	11·8	—	11·1	—	13·7	—	10·7	—	10·7	—	11·6	—	—	—	9·2
	1876	—	13·4	—	9·5	—	6·3	—	6·7	—	8·2	—	7·5	—	7·6	—	12·1	—	12·0	—	10·9	—	10·0	—	10·0	—	11·0	—	—	—	9·3
	1877	—	11·9	—	9·8	—	7·1	—	7·6	—	8·3	—	10·7	—	8·7	—	14·2	—	15·4	—	14·2	—	13·4	—	11·4	—	13·7	—	—	—	11·2
	1878	67	9·3	40	4·3	45	4·8	52	4·5	43	3·9	42	5·1	44	4·5	53	11·0	51	7·2	41	6·1	60	8·3	52	7·8	51	8·1	56	6·1	48	6·3
	1879	54	5·5	46	6·9	55	5·1	54	6·2	48	6·1	49	8·2	50	6·5	47	8·5	43	6·7	54	11·2	60	6·7	55	11·2	52	8·9	63	11·7	51	7·7
	1880	49	7·4	41	5·5	34	3·3	38	3·4	35	4·3	38	4·7	37	4·2	49	10·3	40	6·2	47	6·9	49	7·5	50	9·8	47	8·1	50	6·0	42	6·2
	1881	60	9·2	46	7·4	51	6·3	47	5·8	42	6·4	39	6·7	45	6·5	46	9·5	42	8·6	45	9·7	51	7·7	44	8·7	46	8·8	51	9·0	46	7·7
	1882	72	10·3	48	5·2	32	3·1	32	4·3	35	5·6	34	3·6	36	4·4	62	11·9	49	7·8	49	7·1	63	8·3	59	9·7	57	9·0	48	5·8	47	6·7
	1883	65	8·9	52	6·5	53	5·8	51	6·4	49	7·4	49	7·5	51	6·7	56	12·2	51	8·5	55	10·4	63	10·2	57	13·8	57	11·0	63	8·8	54	8·9
	1884	66	12·1	52	6·4	44	6·2	42	3·9	47	6·7	48	6·7	46	6·0	68	17·1	57	11·5	62	12·2	70	12·2	72	15·4	66	13·7	59	9·2	56	9·9
	1885	63	9·1	46	5·4	45	4·4	48	5·3	50	6·1	45	7·3	47	5·7	57	11·9	53	7·7	54	9·1	57	8·4	58	11·8	56	9·8	62	8·2	52	7·8
	Means for 20 years, 1866-85	—	10·3	—	7·7	—	5·2	—	5·2	—	6·5	—	7·3	—	6·4	—	11·9	—	10·1	—	11·8	—	10·0	—	10·8	—	10·9	—	—	—	8·7
MEAN TEMPERATURE (in Degrees Fahrenheit).	1866		38·3		38·8		39·1		40·9		40·4		41·9		40·2		40·0		40·6		43·4		39·9		40·3		40·8		—		40·5
	1867		36·9		37·2		36·8		38·6		38·2		39·2		38·0		37·7		38·6		41·4		38·1		39·9		39·1		—		38·6
	1868		40·7		41·7		41·1		41·4		41·9		42·0		41·6		42·3		42·4		44·4		42·1		44·3		43·1		—		42·4
	1869		40·0		40·3		40·6		41·1		41·2		42·0		41·0		42·0		42·1		45·1		42·9		44·6		43·3		—		42·2
	1870		37·9		37·4		37·1		37·4		38·0		38·2		37·6		38·6		38·7		41·3		39·8		41·6		40·0		—		38·8
	1871		40·0		39·7		38·8		39·2		40·1		40·3		39·6		40·0		40·0		43·3		41·6		43·4		41·7		—		40·7
	1872		40·9		40·9		41·3		42·3		42·9		43·7		42·2		42·9		43·3		46·1		42·4		44·5		43·8		—		43·0
	1873		39·0		38·4		38·5		38·9		39·1		39·9		39·0		39·2		39·7		42·6		39·8		41·0		40·5		—		39·8
	1874		41·7		41·8		41·3		40·4		41·0		42·0		41·3		42·3		41·8		45·0		42·8		45·2		43·4		—		42·4
	1875		39·5		39·0		38·8		38·6		39·2		40·2		39·2		39·8		40·2		42·9		41·6		44·6		41·8		—		40·5
	Means for 10 years, 1866-75		39·5		39·3		39·9		40·2		40·9		40·0				40·5		40·7		43·6		41·1		42·9		41·8		—		40·9
	1876		38·7		38·3		39·2		39·0		38·9		40·0		39·1		39·5		39·8		42·4		40·1		43·3		41·0		—		40·1
	1877		38·4		38·8		40·4		41·7		41·8		43·1		41·2		40·5		41·8		44·9		41·4		45·2		42·8		—		42·0
	1878		39·4		40·1		40·8		40·6		41·8		41·7		41·0		41·9		42·2		44·2		42·5		45·1		43·2		43·8		42·1
	1879		35·8		34·2		35·9		36·5		36·4		37·8		36·2		36·5		36·8		40·8		38·0		40·5		38·5		42·4		37·4
	1880		40·6		39·8		39·5		39·2		39·9		40·5		39·8		41·3		40·6		43·5		42·2		44·1		42·3		42·4		41·1
	1881		34·4		33·5		34·3		36·1		35·8		38·2		35·6		35·3		36·6		39·9		37·5		39·8		37·8		44·5		36·7
	1882		41·8		42·9		42·8		42·1		42·6		43·5		42·8		43·7		43·5		44·9		44·8		46·0		44·6		44·7		43·7
	1883		38·7		38·8		38·8		39·0		39·2		40·8		39·3		40·2		40·1		42·2		40·9		42·5		41·2		44·8		40·3
	1884		40·7		41·2		41·9		42·4		42·6		43·8		42·4		42·4		42·4		44·5		42·7		44·8		43·4		46·5		42·9
	1885		38·4		38·3		39·2		39·2		39·3		40·7		39·3		39·6		39·7		41·9		40·6		42·2		40·8		43·9		40·1
	Means for 20 years, 1866-85		39·1		39·1		39·3		39·7		40·0		41·0		39·7		40·3		40·5		43·2		41·1		43·1		41·6		—		40·7

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE TWENTY YEARS, 1866 TO 1885.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 4·2 in 1880	Ins. 8·1 in 1878 and 1880	Ins. 6·2 in 1880
	Wettest	9·0 in 1872	14·9 in 1872	12·0 in 1872
Temperature	Coldest	° 35·6 in 1881	° 37·8 in 1881	° 36·7 in 1881
	Warmest	42·8 in 1882	44·6 in 1882	43·7 in 1882

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE, FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR FOR THE FIRST QUARTER, 1885.

YEAR AND MONTHS.	0. SCOTLAND, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.														CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.	
			1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR THE &c. GRAZING, DISTRICTS.						
	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.
1885.																																
RAINFALL.—NUMBER OF DAYS WITH RAIN.																																
January	15	15	11	11	12	12	15	15	14	14	11	11	13	13	13	13	10	10	15	15	16	16	18	18	14	14	17	17	14	14		
February	23	38	18	29	19	31	18	33	20	34	20	31	19	32	24	37	24	34	23	38	22	38	23	41	23	37	26	43	21	35		
March	25	63	17	46	14	45	15	48	16	50	14	45	15	47	20	57	19	53	16	54	19	57	17	58	19	56	19	62	17	52		
RAINFALL.—AMOUNTS IN INCHES.																																
January	2·29	2·29	1·23	1·23	1·16	1·16	1·60	1·60	1·22	1·22	1·23	1·23	1·29	1·29	2·54	2·54	1·27	1·27	2·26	2·26	2·08	2·08	3·16	3·16	2·26	2·26	2·26	2·26	1·78	1·78		
February	3·66	5·95	2·65	3·88	1·68	2·84	2·18	3·78	3·41	4·63	3·86	5·09	2·75	4·04	5·91	8·45	3·89	5·16	4·50	6·76	3·92	6·00	5·53	8·69	4·75	7·01	4·02	6·28	3·75	5·53		
March	3·15	9·10	1·54	5·42	1·57	4·41	1·50	5·28	1·47	6·10	2·25	7·34	1·67	5·71	3·43	11·88	2·53	7·69	2·33	9·09	2·41	8·41	3·06	11·75	2·75	9·76	1·90	8·18	2·21	7·74		
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																																
January	5	5	0	0	0	0	0	0	1	1	6	6	1	1	5	5	4	4	23	23	32	32	62	62	25	25	38	38	13	13		
February	11	16	22	22	54	54	78	78	77	78	99	105	66	67	37	42	53	57	103	126	66	98	93	155	70	95	125	163	68	81		
March	44	60	90	112	66	120	93	171	92	170	97	202	88	155	68	110	66	123	100	226	97	195	128	283	92	187	114	277	90	171		
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																																
January	125	125	188	188	166	166	218	218	220	220	178	178	194	194	146	146	161	161	129	129	117	117	91	91	129	129	74	74	162	162		
February	144	269	139	327	85	251	74	292	78	298	45	223	84	278	90	236	73	234	42	171	33	210	62	153	72	201	6	80	78	240		
March	140	409	127	454	126	377	157	449	144	442	122	345	135	413	123	359	114	348	93	264	119	329	101	254	110	311	19	99	122	362		
BRIGHT SUNSHINE.—NUMBER OF HOURS.																																
January	14	14	14	14	3	3	33	33	14	14	19	19	17	17	23	23	10	10	28	28	37	37	48	48	29	29	36	36	23	23		
February	47	61	65	79	19	22	49	82	46	60	45	64	45	62	42	65	29	39	44	72	73	110	71	119	52	81	67	103	49	72		
March	106	167	129	208	78	100	138	220	116	176	123	187	117	179	123	188	110	149	139	211	105	215	138	257	123	204	165	268	120	192		
BRIGHT SUNSHINE.—PERCENTAGE OF POSSIBLE DURATION.																																
January	7	5	7	7	1	0	15	11	6	6	8	7	7	6	11	10	5	3	12	11	17	15	21	22	13	13	15	14	10	9		
February	19	11	25	13	7	3	18	16	17	9	16	11	17	10	16	12	11	6	17	13	28	21	27	23	20	15	24	18	19	13		
March	26	17	32	21	19	9	34	21	29	18	30	18	29	17	30	20	28	14	34	20	26	24	34	28	30	21	40	25	30	19		

EXPLANATION OF TABLES.

TABLES I. and IA. are merely in continuation of the Tables given in the Quarterly Summary of the Weekly Weather Report, 1884. The whole of the values for 1878-85, however, have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *January* are those for the first four weeks in the year; those for *February* are for the fifth to the eighth weeks; those for *March* are for the ninth to the thirteenth weeks.

The figures given in the columns headed "Since Dec. 30" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0 are not included.

In the "Means for the Grazing, &c. Districts" the values for the "Channel Islands" are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1885.

VOL. II. APPENDIX I.] *New Series.* SECOND QUARTER—APRIL TO JUNE. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE SECOND QUARTER OF THE TWENTY YEARS, 1866 TO 1885.

	YEARS.	0. Scotland, N.		Principal Wheat-producing Districts.										Principal Grazing, &c. Districts.										Channel Islands.		Means for the British Islands generally.	
				1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, Districts.			
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
RAINFALL (in Inches).	1866	—	6·2	—	4·8	—	5·2	—	6·0	—	6·3	—	6·7	—	5·8	—	5·1	—	6·3	—	6·5	—	6·7	—	8·2	—	6·6	—	6·2
	1867	—	10·6	—	8·0	—	6·8	—	6·2	—	6·7	—	5·8	—	6·7	—	10·5	—	8·3	—	10·0	—	10·0	—	9·3	—	9·6	—	8·2
	1868	—	10·9	—	6·1	—	3·7	—	3·2	—	3·3	—	4·1	—	4·1	—	7·7	—	4·4	—	5·9	—	6·6	—	6·3	—	6·2	—	5·2
	1869	—	6·7	—	5·3	—	7·5	—	5·0	—	7·5	—	6·6	—	6·4	—	4·8	—	7·6	—	8·2	—	7·7	—	7·8	—	7·2	—	6·8
	1870	—	9·5	—	4·1	—	4·3	—	2·3	—	2·5	—	2·4	—	3·1	—	7·4	—	5·7	—	4·2	—	6·4	—	4·6	—	5·7	—	4·4
	1871	—	4·3	—	6·1	—	7·5	—	7·5	—	7·5	—	7·7	—	7·3	—	8·3	—	7·7	—	8·4	—	7·5	—	7·7	—	7·9	—	7·6
	1872	—	11·4	—	10·4	—	7·4	—	6·6	—	8·6	—	8·5	—	8·3	—	11·2	—	12·0	—	10·9	—	9·8	—	7·6	—	10·3	—	9·3
	1873	—	7·9	—	5·9	—	4·8	—	4·7	—	5·6	—	4·3	—	5·1	—	5·1	—	4·7	—	5·9	—	6·3	—	5·1	—	5·4	—	5·3
	1874	—	10·0	—	4·5	—	3·4	—	3·9	—	3·9	—	5·3	—	4·2	—	5·5	—	5·0	—	4·5	—	6·8	—	4·2	—	5·2	—	4·7
	1875	—	8·7	—	5·5	—	4·2	—	4·9	—	6·4	—	6·0	—	5·4	—	6·5	—	7·6	—	9·8	—	7·0	—	6·5	—	7·5	—	6·4
	Means for 10 years, 1866-75	—	8·6	—	6·1	—	5·5	—	5·0	—	5·8	—	5·7	—	5·6	—	7·2	—	6·9	—	7·4	—	7·5	—	6·7	—	7·1	—	6·4
	1876	—	8·4	—	6·1	—	6·2	—	4·9	—	5·5	—	4·9	—	5·5	—	6·4	—	7·0	—	5·5	—	5·6	—	5·0	—	5·9	—	5·7
	1877	—	10·1	—	8·8	—	6·7	—	5·6	—	6·8	—	6·2	—	6·8	—	9·5	—	8·4	—	11·2	—	8·5	—	10·9	—	9·7	—	8·3
	1878	38	3·7	38	6·2	44	7·6	54	8·2	56	9·2	51	8·4	48	7·9	42	8·7	48	8·3	58	11·6	49	9·1	62	13·9	52	10·3	61	10·6	51	9·1
	1879	46	4·5	56	8·3	57	8·3	68	10·1	64	10·0	58	10·3	61	9·4	51	9·9	55	8·4	61	11·3	58	10·0	63	11·6	57	10·2	64	8·9	59	9·8
	1880	46	4·9	43	4·9	44	6·6	50	6·3	48	7·2	43	5·5	45	6·1	46	8·0	40	6·7	38	5·4	53	8·5	46	7·8	45	7·3	49	4·6	45	6·7
	1881	49	7·0	45	5·6	41	4·5	35	4·3	37	4·3	33	4·2	38	4·6	49	9·3	44	8·6	42	6·1	55	8·5	48	8·3	47	8·2	41	4·6	43	6·4
	1882	51	7·4	51	7·4	47	9·2	48	8·0	49	9·9	47	7·9	48	8·5	51	10·5	51	10·6	55	10·2	60	9·4	56	10·3	55	10·2	49	6·6	52	9·3
	1883	48	5·7	40	3·8	39	6·0	36	6·7	39	7·2	36	5·1	38	5·8	45	7·8	38	5·9	42	6·1	52	6·2	44	7·6	44	6·7	42	5·9	41	6·2
	1884	48	6·4	39	5·6	39	3·2	33	3·8	32	4·2	31	4·7	35	3·9	40	5·4	32	3·8	32	4·9	42	5·8	38	4·6	37	4·9	42	4·9	37	4·4
	1885	61	6·8	46	5·5	48	6·1	43	6·5	48	6·8	43	6·0	46	6·2	48	7·3	45	6·0	50	8·7	50	6·1	46	7·8	48	7·2	50	6·0	47	6·7
	Means for 20 years, 1866-85	—	7·6	—	6·0	—	6·0	—	5·7	—	6·5	—	6·0	—	6·0	—	7·7	—	7·2	—	7·8	—	7·6	—	7·8	—	7·6	—	—	—	6·8
MEAN TEMPERATURE (in Degrees Fahrenheit).	1866	° 48·2		° 48·1		° 48·0		° 52·2		° 51·7		° 52·9		° 50·6		° 50·9		° 50·6		° 53·0		° 51·9		° 51·4		° 51·6		° —		° 51·1	
	1867	47·2		49·9		48·5		52·7		52·2		52·8		51·2		51·1		51·6		53·6		53·1		52·9		52·5		—		51·9	
	1868	49·7		52·3		52·1		55·1		55·7		54·8		54·0		52·3		53·5		55·0		52·8		54·6		53·6		—		53·8	
	1869	47·7		49·4		49·2		50·9		51·6		51·7		50·6		50·1		50·3		53·5		51·3		52·6		51·6		—		51·1	
	1870	49·5		52·5		51·4		52·8		54·4		53·5		52·9		51·9		52·8		54·3		53·2		53·5		53·1		—		53·0	
	1871	47·2		48·4		47·9		49·5		51·7		51·2		49·7		50·8		50·7		53·7		52·4		53·9		52·3		—		51·0	
	1872	48·2		49·7		49·7		52·0		51·3		51·9		50·9		50·3		51·0		51·9		50·5		51·6		51·1		—		51·0	
	1873	47·9		49·8		49·1		49·8		51·6		51·7		50·4		51·7		51·3		52·5		51·9		53·2		52·1		—		51·3	
	1874	48·4		49·6		49·9		51·3		52·4		52·7		51·2		51·1		51·4		54·0		51·5		54·3		52·5		—		51·9	
	1875	49·3		51·4		51·2		52·4		52·8		52·9		52·1		51·7		52·0		53·1		51·9		53·3		52·4		—		52·3	
	Means for 10 years, 1866-75	48·3		50·1		49·7		51·9		52·5		52·6		51·4		51·2		51·5		53·5		52·1		53·1		52·3		—		51·8	
	1876	48·2		49·7		49·8		51·1		51·3		51·3		50·6		50·3		50·5		52·1		49·8		52·2		51·0		—		50·8	
	1877	46·6		47·5		48·4		50·8		51·1		51·8		49·9		49·1		49·5		52·3		49·3		52·2		50·5		—		50·2	
	1878	48·8		50·6		51·7		53·8		54·3		54·8		53·0		52·5		53·5		53·5		52·6		53·7		53·2		54·9		53·1	
	1879	45·0		46·8		47·5		48·8		49·0		49·8		48·4		48·4		48·6		50·0		48·4		50·0		49·1		50·7		48·8	
	1880	47·6		49·9		49·5		51·1		50·9		52·0		50·7		50·5		50·5		52·3		50·4		52·1		51·2		52·2		51·0	
	1881	46·8		50·1		50·6		52·6		52·9		53·5		51·9		50·8		51·8		52·5		51·8		52·8		51·9		53·4		51·9	
	1882	47·5		49·4		50·4		52·4		52·2		53·8		51·6		50·7		51·8		52·4		51·2		52·2		51·7		53·9		51·7	
	1883	47·3		50·1		50·2		52·1		52·2		52·9		51·5		50·0		51·0		51·7		50·5		51·5		50·9		52·6		51·2	
	1884	46·8		49·4		50·0		51·2		51·4		52·4		50·9		50·1		50·6		51·5		50·6		51·8		50·9		52·6		50·9	
	1885	45·8		48·6		49·0		50·5		50·2		51·8		50·0		48·3		49·0		50·0		48·7		49·6		49·1		51·1		49·6	
	Means for 20 years, 1866-85	47·7		49·7		49·7		51·7		52·0		52·5		51·1		50·6		51·1		52·6		51·2		52·5		51·6		—		51·4	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE TWENTY YEARS, 1866 TO 1885.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 3·1 in 1870	Ins. 4·9 in 1884	Ins. 4·4 in 1870 and 1884
	Wettest	9·4 in 1879	10·3 in 1872 and 1878 10·2 in 1879 and 1882	9·8 in 1879
Temperature	Coldest	° 48·4 in 1879	° 49·1 in 1879	° 48·8 in 1879
	Warmest	54·0 in 1868	53·6 in 1868	53·8 in 1868

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE, FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR, FOR THE SECOND QUARTER, 1885.

YEAR AND MONTHS.	0. Scotland, N.		Principal Wheat-producing Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat producing Districts.		Principal Grazing, &c. Districts. 6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the &c. Grazing Districts.		Channel Islands.		Means for the British Islands generally.	
	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.
RAINFALL.—NUMBER OF DAYS WITH RAIN.																														
April	13	76	9	55	14	59	11	59	14	64	12	57	12	59	11	68	14	67	13	67	14	71	13	71	13	69	17	79	12	64
May	22	98	24	79	22	81	20	79	20	84	19	76	21	80	19	87	18	85	21	88	20	91	21	92	20	89	18	97	21	85
June	26	124	13	92	12	93	12	91	14	98	12	88	13	93	18	105	13	98	16	104	16	107	12	104	15	104	15	112	14	99
RAINFALL.—AMOUNTS IN INCHES.																														
April	1·68	10·78	1·39	6·81	1·71	6·12	1·46	6·74	2·03	8·13	1·36	8·70	1·59	7·30	2·80	14·68	2·15	9·84	2·51	11·60	2·66	11·07	3·56	15·31	2·74	12·50	1·87	10·05	2·16	9·90
May	1·96	12·74	3·19	10·00	2·68	8·80	3·14	9·88	2·16	10·29	2·85	11·55	2·80	10·10	2·42	17·10	1·74	11·58	3·33	14·93	2·26	13·33	2·46	17·77	2·44	14·94	2·73	12·78	2·62	12·52
June	3·18	15·92	0·94	10·94	1·74	10·54	1·90	11·78	2·65	12·94	1·80	13·35	1·81	11·91	2·07	19·17	2·13	13·71	2·88	17·81	1·20	14·53	1·79	19·56	2·01	16·95	1·37	14·15	1·91	14·43
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																														
April	92	152	128	240	117	237	162	333	152	322	189	391	150	305	121	231	122	245	140	366	135	330	144	427	133	320	155	432	142	313
May	93	245	127	367	129	366	174	507	178	500	192	583	160	465	135	366	141	386	159	525	143	473	163	590	148	468	189	621	154	467
June	258	503	424	791	451	817	516	1023	507	1007	550	1133	489	954	388	754	432	818	477	1002	393	866	437	1027	425	893	474	1095	457	924
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																														
April	66	475	67	521	54	431	71	520	73	515	42	387	62	475	54	413	55	403	48	312	48	377	52	306	51	362	7	106	57	419
May	53	528	44	565	24	455	39	559	43	558	15	402	33	508	40	453	22	425	19	331	30	407	22	328	27	389	0	106	30	449
June	0	528	0	565	0	455	0	559	0	558	0	402	0	508	0	453	0	425	0	331	0	407	0	328	0	389	0	106	0	449
BRIGHT SUNSHINE.—NUMBER OF HOURS.																														
April	163	330	148	356	75	175	160	380	134	310	158	345	135	314	142	330	126	275	162	373	115	330	130	387	135	339	198	466	135	327
May	160	490	138	494	147	322	168	548	158	468	170	515	156	470	146	476	154	429	179	552	160	490	177	564	163	502	245	711	179	486
June	170	660	229	723	194	516	249	797	242	710	256	771	233	703	207	683	212	641	222	774	200	690	230	794	214	716	239	950	224	710
BRIGHT SUNSHINE.—PERCENTAGE OF POSSIBLE DURATION.																														
April	42	25	38	27	20	13	42	28	35	23	42	25	35	23	37	25	33	21	43	27	30	26	34	31	35	26	53	34	35	25
May	36	28	31	29	34	17	39	32	37	26	40	29	36	27	34	28	35	24	42	32	37	28	41	33	38	29	59	40	37	28
June	27	29	38	31	33	22	43	34	42	30	45	33	40	30	34	29	37	27	39	33	34	29	40	34	37	30	43	42	39	30

1885.

EXPLANATION OF TABLES.

TABLES I. and IA. are merely in continuation of the Tables given in the Quarterly Summary of the Weekly Weather Report, 1884. The whole of the values for 1878-85, however, have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *April* are those for the fourteenth to seventeenth weeks in the year; those for *May* are for the eighteenth to the twenty-first weeks; those for *June* are for the twenty-second to the twenty-sixth weeks.

The figures given in the columns headed "Since Dec. 30" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0 are not included.

In the "Means for the Grazing, &c. Districts" the values for the "Channel Islands" are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1885.

VOL. II. APPENDIX I.] THIRD QUARTER—JULY TO SEPTEMBER. [*Price 4d.*
New Series.

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE THIRD QUARTER OF THE TWENTY YEARS, 1866 TO 1885.

RAINFALL (in Inches).

YEARS.	0. Scotland, N.		Principal Wheat-producing Districts.										Principal Grazing, &c. Districts.										Channel Islands.		Means for the British Islands generally.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, Districts.			
	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
1866	—	11·8	—	10·6	—	9·3	—	7·9	—	11·7	—	9·7	—	9·8	—	15·1	—	16·1	—	15·2	—	12·0	—	8·9	—	13·5	—	—	—	11·7
1867	—	10·0	—	10·1	—	7·1	—	7·1	—	7·4	—	8·6	—	8·1	—	12·9	—	10·4	—	8·7	—	11·8	—	8·8	—	10·5	—	—	—	9·3
1868	—	9·7	—	10·4	—	6·0	—	4·2	—	7·1	—	7·2	—	7·0	—	9·1	—	6·7	—	9·5	—	8·1	—	11·0	—	8·9	—	—	—	8·0
1869	—	12·8	—	7·0	—	5·8	—	5·6	—	6·4	—	6·0	—	6·2	—	10·4	—	11·5	—	9·9	—	9·4	—	8·5	—	9·9	—	—	—	8·1
1870	—	8·6	—	5·8	—	3·5	—	5·8	—	4·5	—	4·8	—	4·9	—	6·8	—	5·0	—	7·0	—	7·6	—	5·7	—	6·4	—	—	—	5·7
1871	—	13·0	—	8·7	—	9·7	—	7·5	—	10·8	—	10·3	—	9·4	—	9·8	—	11·8	—	14·2	—	11·1	—	10·5	—	11·5	—	—	—	10·5
1872	—	12·1	—	12·5	—	10·4	—	9·8	—	9·4	—	6·6	—	9·7	—	16·1	—	15·8	—	13·1	—	14·7	—	11·2	—	14·2	—	—	—	12·0
1873	—	13·7	—	11·8	—	7·2	—	6·4	—	6·8	—	7·3	—	7·9	—	15·7	—	11·8	—	14·0	—	14·2	—	11·8	—	13·5	—	—	—	10·7
1874	—	15·5	—	11·6	—	5·8	—	5·1	—	7·1	—	6·3	—	7·2	—	13·4	—	12·6	—	13·8	—	11·8	—	10·1	—	12·3	—	—	—	9·8
1875	—	11·2	—	8·9	—	9·1	—	8·6	—	11·5	—	9·4	—	9·5	—	11·2	—	12·7	—	15·3	—	9·2	—	10·6	—	11·8	—	—	—	10·7
Means for 10 years, 1866-75	—	11·8	—	9·7	—	7·4	—	6·8	—	8·3	—	7·6	—	8·0	—	12·1	—	11·4	—	12·1	—	11·0	—	9·7	—	11·3	—	—	—	9·7
1876	—	8·9	—	7·4	—	8·0	—	8·1	—	9·0	—	7·9	—	8·1	—	10·3	—	11·2	—	13·8	—	10·0	—	9·6	—	11·0	—	—	—	9·6
1877	—	10·8	—	11·3	—	10·1	—	8·1	—	10·4	—	7·6	—	9·5	—	12·6	—	15·4	—	14·5	—	12·0	—	10·4	—	13·0	—	—	—	11·3
1878	51	8·0	47	8·0	46	8·4	48	6·9	43	9·1	40	7·5	44	8·0	47	10·5	48	10·8	44	9·2	55	8·1	51	10·5	48	9·8	52	8·5	46	8·9
1879	59	9·8	55	9·9	53	9·0	61	12·1	54	10·8	56	11·2	55	10·6	64	15·8	62	13·9	61	12·9	68	15·5	64	12·4	64	14·1	63	10·3	60	12·4
1880	40	7·5	46	7·7	45	10·5	46	10·0	44	11·2	43	9·4	46	9·8	46	9·4	46	10·0	47	7·7	54	9·8	49	10·8	48	9·5	55	8·0	47	9·7
1881	49	6·5	50	9·1	51	10·3	51	8·5	47	8·3	47	8·2	49	8·9	55	10·4	50	11·0	49	9·4	63	8·6	55	10·3	54	9·9	51	7·8	52	9·4
1882	60	8·2	57	8·0	56	6·9	48	7·0	55	8·1	49	7·2	53	7·4	57	12·3	55	11·5	57	13·2	65	11·5	59	11·1	59	11·9	59	8·1	56	9·7
1883	59	8·5	57	10·1	51	8·3	52	8·1	50	8·9	49	6·7	52	8·4	54	12·2	51	9·8	58	10·1	61	11·4	57	12·8	56	11·3	62	9·5	54	9·9
1884	53	7·8	48	6·5	35	5·3	38	7·4	40	6·2	44	5·9	41	6·2	55	12·3	48	9·0	52	8·6	59	10·2	48	7·1	52	9·4	52	7·1	47	7·8
1885	59	8·1	45	6·0	36	5·7	36	6·2	35	5·9	33	5·1	37	5·8	46	11·6	43	7·8	42	8·8	51	9·9	46	9·9	46	9·6	45	5·7	42	7·7
Means for 20 years, 1866-85	—	10·1	—	9·1	—	7·8	—	7·5	—	8·5	—	7·6	—	8·1	—	11·9	—	11·2	—	11·4	—	10·8	—	10·1	—	11·1	—	—	—	9·6

MEAN TEMPERATURE (in Degrees Fahrenheit).

YEARS.	0. Scotland, N.	Principal Wheat-producing Districts.						Principal Grazing, &c. Districts.						Channel Islands.	Means for the British Islands generally.
		1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.	Means for Wheat-producing Districts.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	Means for the Grazing, Districts.		
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
1866	53·2	55·4	55·4	57·6	56·8	58·1	56·7	56·2	56·8	58·4	56·0	57·2	56·9	—	56·8
1867	53·7	56·0	55·9	58·8	58·5	59·2	57·7	57·2	58·2	60·0	58·5	59·4	58·7	—	58·2
1868	55·0	58·5	58·8	62·5	62·4	62·4	60·9	59·5	61·2	63·6	59·1	60·8	60·8	—	60·9
1869	54·4	57·4	57·6	60·2	60·5	60·3	59·2	58·2	59·1	61·4	59·5	59·8	59·6	—	59·4
1870	55·6	58·1	57·2	59·6	60·5	60·3	59·1	58·5	59·5	61·7	59·6	60·3	59·9	—	59·5
1871	55·1	57·4	57·5	59·9	59·5	60·1	58·9	57·3	58·3	60·6	57·2	58·0	58·3	—	58·6
1872	54·0	55·9	57·1	59·7	60·1	60·3	58·6	57·7	59·1	60·7	57·9	59·3	58·9	—	58·8
1873	54·1	56·4	57·3	59·1	58·7	59·4	58·2	57·4	57·8	59·5	56·6	57·9	57·8	—	58·0
1874	54·4	56·7	57·9	60·2	60·3	60·2	59·1	57·8	58·8	60·6	56·9	59·0	58·6	—	58·9
1875	54·8	57·0	57·8	59·7	59·6	60·2	58·9	58·4	58·7	60·6	57·5	60·0	59·0	—	59·0
Means for 10 years, 1866-75	54·4	56·9	57·3	59·7	59·7	60·1	58·7	57·8	58·8	60·7	57·9	59·2	58·9	—	58·8
1876	54·3	56·3	57·7	60·4	60·7	61·1	59·2	57·6	58·8	61·0	56·6	59·4	58·7	—	59·0
1877	52·7	55·0	55·5	57·9	57·7	58·2	56·9	55·3	56·0	58·3	55·1	57·3	56·4	—	56·7
1878	55·2	58·5	59·1	60·4	60·2	61·6	60·0	59·2	59·5	61·3	58·8	60·7	59·9	62·1	60·0
1879	52·4	54·2	56·2	58·1	57·8	58·7	57·0	55·2	56·2	57·5	54·8	57·5	56·2	58·5	56·6
1880	55·9	57·8	59·5	61·1	60·1	62·1	60·1	58·6	59·8	61·3	58·8	60·1	59·7	61·5	59·9
1881	52·1	56·8	56·8	58·6	57·7	59·4	57·9	54·8	56·4	57·5	55·8	56·4	56·2	59·8	57·1
1882	54·2	56·6	57·7	58·2	57·1	58·8	57·7	56·0	56·8	57·4	55·9	56·2	56·5	58·9	57·1
1883	52·9	55·8	56·9	58·5	57·7	59·5	57·7	55·9	57·2	57·5	55·8	56·9	56·7	59·1	57·2
1884	54·5	57·5	59·1	61·8	60·7	62·4	60·3	58·2	59·6	60·5	57·9	59·0	59·0	61·7	59·7
1885	51·7	55·0	56·2	58·0	57·7	59·6	57·3	54·8	56·2	57·7	55·7	57·3	56·3	59·6	56·8
Means for 20 years, 1866-85	54·0	56·6	57·4	59·5	59·2	60·1	58·6	57·2	58·2	59·9	57·2	58·6	58·2	—	58·4

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE TWENTY YEARS, 1866 TO 1885.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 4·9 in 1870	Ins. 6·4 in 1870	Ins. 5·7 in 1870
	Wettest	10·6 in 1879	14·2 in 1872	12·4 in 1879
Temperature	Coldest	° 56·7 in 1866	° 56·2 in 1879 and 1881	° 56·6 in 1879
	Warmest	60·9 in 1868	60·8 in 1868	60·9 in 1868

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE, FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR, FOR THE THIRD QUARTER, 1885.

YEAR AND MONTHS.	0. Scotland, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat Producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the &c. Grazing, Districts.					
	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.
RAINFALL.—NUMBER OF DAYS WITH RAIN.																														
July	20	144	10	102	9	102	6	97	4	102	5	93	7	100	14	119	10	108	8	112	17	124	11	115	12	116	10	122	9	108
August	15	159	14	116	10	112	9	106	9	111	8	101	10	110	9	128	11	119	9	121	10	134	9	124	9	125	8	130	10	118
September	24	183	21	137	17	129	21	127	22	133	20	121	21	131	23	151	22	141	25	146	24	158	26	150	24	149	27	157	22	140
RAINFALL.—AMOUNTS IN INCHES.																														
July	2·19	18·11	1·01	11·95	0·98	11·52	0·55	12·33	0·35	13·29	0·34	13·69	0·65	12·56	2·25	21·42	1·89	15·60	1·06	18·87	3·05	17·58	1·79	21·35	2·00	18·95	0·52	14·67	1·33	15·76
August	1·49	19·60	2·07	14·02	2·17	13·69	1·25	13·58	1·86	15·15	0·47	14·16	1·56	14·12	2·58	24·00	1·83	17·43	1·32	20·19	1·65	19·23	2·24	23·59	1·93	20·88	0·73	15·40	1·74	17·50
September	4·45	24·05	2·92	16·94	2·59	16·28	4·38	17·96	3·67	18·82	4·26	18·42	3·56	17·68	6·75	30·75	4·03	21·46	6·40	26·59	5·21	24·44	5·91	29·50	5·66	26·54	4·47	19·87	4·61	22·11
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																														
July	310	813	447	1238	478	1295	522	1545	528	1535	547	1680	505	1459	401	1155	460	1278	480	1482	423	1289	472	1499	448	1341	502	1597	476	1400
August	286	1099	358	1596	391	1686	446	1991	431	1966	499	2179	425	1884	391	1546	411	1689	444	1926	413	1702	447	1946	421	1762	511	2108	423	1823
September	266	1365	333	1929	390	2076	443	2434	437	2403	515	2694	424	2308	340	1886	388	2077	466	2392	372	2074	432	2378	399	2161	563	2671	412	2235
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																														
July	0	528	0	565	0	455	0	559	0	558	0	402	0	508	0	453	0	425	0	331	0	407	0	328	0	389	0	106	0	449
August	0	528	0	565	0	455	0	559	0	558	0	402	0	508	0	453	0	425	0	331	0	407	0	328	0	389	0	106	0	449
September	8	536	1	566	0	455	5	564	11	569	3	405	4	512	0	453	0	425	1	332	0	407	1	329	0	389	0	106	2	451
BRIGHT SUNSHINE.—NUMBER OF HOURS.																														
July	103	763	183	906	160	676	218	1015	205	915	219	990	197	900	164	847	181	822	203	977	99	789	124	918	154	870	249	1199	175	885
August	145	908	148	1054	66	742	123	1138	160	1075	164	1154	132	1032	178	1025	177	999	226	1203	168	957	218	1136	193	1063	283	1482	163	1048
September	155	1063	181	1235	141	883	166	1304	148	1223	159	1313	159	1191	131	1156	142	1141	161	1364	99	1056	143	1279	135	1198	190	1672	146	1194
BRIGHT SUNSHINE.—PERCENTAGE OF POSSIBLE DURATION.																														
July	22	28	38	33	35	25	49	37	46	33	49	35	42	33	36	30	39	30	46	36	21	29	27	34	34	32	57	43	39	33
August	34	28	35	33	16	24	30	36	39	34	40	37	32	33	42	32	43	31	56	38	40	30	53	35	47	33	70	47	39	33
September	42	29	50	34	40	24	47	36	42	34	44	37	44	33	37	32	41	31	46	38	28	29	40	36	38	33	54	47	41	33

1885.

EXPLANATION OF TABLES.

TABLES I. and IA. are merely in continuation of the Tables given in the Quarterly Summary of the Weekly Weather Report, 1884. The whole of the values for 1878-85, however, have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *July* are those for the twenty-seventh to thirtieth weeks in the year; those for *August* are for the thirty-first to the thirty-fourth weeks; those for *September* are for the thirty-fifth to the thirty-ninth weeks.

The figures given in the columns headed "Since Dec. 30" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0 are not included.

In the "Means for the Grazing, &c. Districts" the values for the "Channel Islands" are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1885.

VOL. II. APPENDIX I.] FOURTH QUARTER—OCTOBER TO DECEMBER. [*Price 4d.*
New Series.

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE FOURTH QUARTER OF THE TWENTY YEARS, 1866 TO 1885.

RAINFALL (in Inches).

YEARS.	Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.										Channel Islands.		Means for the British Islands generally.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the &c. Grazing, Districts.				Means for the British Islands generally.	
	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.			Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.			Days.	Inches.
1866	—	20·6	—	9·0	—	6·0	—	5·9	—	6·7	—	6·3	—	6·8	—	14·4	—	15·3	—	12·4	—	11·9	—	9·2	—	12·6	—	—	—	9·7
1867	—	16·8	—	5·7	—	4·8	—	5·7	—	5·5	—	5·8	—	5·5	—	10·4	—	10·3	—	12·1	—	9·6	—	7·5	—	10·0	—	—	—	7·8
1868	—	19·0	—	10·3	—	9·5	—	7·9	—	9·7	—	11·4	—	9·8	—	15·1	—	18·5	—	18·3	—	14·0	—	14·3	—	16·0	—	—	—	12·9
1869	—	19·8	—	9·8	—	7·9	—	9·1	—	7·7	—	8·5	—	8·6	—	14·0	—	13·6	—	14·3	—	13·1	—	9·5	—	12·9	—	—	—	10·8
1870	—	16·0	—	9·3	—	10·5	—	8·4	—	8·6	—	9·5	—	9·3	—	10·6	—	16·0	—	15·9	—	14·6	—	12·2	—	13·9	—	—	—	11·6
1871	—	15·1	—	7·3	—	5·4	—	4·3	—	4·2	—	4·6	—	5·2	—	10·7	—	10·7	—	12·4	—	7·6	—	9·4	—	10·2	—	—	—	7·7
1872	—	18·0	—	15·0	—	11·6	—	10·6	—	12·0	—	16·5	—	13·1	—	16·3	—	17·4	—	25·1	—	16·8	—	17·6	—	18·6	—	—	—	15·9
1873	—	21·2	—	9·6	—	3·5	—	4·6	—	4·6	—	6·5	—	5·8	—	11·7	—	10·6	—	9·4	—	7·9	—	7·7	—	9·5	—	—	—	7·7
1874	—	17·8	—	9·2	—	8·0	—	7·0	—	7·4	—	10·6	—	8·4	—	14·4	—	15·0	—	16·0	—	13·0	—	12·7	—	14·2	—	—	—	11·3
1875	—	13·7	—	11·1	—	10·1	—	9·6	—	11·4	—	11·2	—	10·7	—	12·5	—	12·7	—	18·5	—	10·1	—	13·1	—	13·4	—	—	—	12·1
Means for 10 years, 1866-75	—	17·8	—	9·6	—	7·7	—	7·3	—	7·8	—	9·1	—	8·3	—	13·0	—	14·0	—	15·4	—	11·9	—	11·3	—	13·1	—	—	—	10·7
1876	—	13·7	—	13·2	—	10·5	—	7·5	—	11·7	—	13·4	—	11·3	—	16·0	—	14·1	—	19·1	—	14·4	—	17·6	—	16·2	—	—	—	13·8
1877	—	23·1	—	11·3	—	6·4	—	6·4	—	7·4	—	10·6	—	8·4	—	18·1	—	17·8	—	17·2	—	14·3	—	14·0	—	16·3	—	—	—	12·4
1878	72	11·1	53	8·1	60	10·4	57	9·6	51	7·8	48	8·3	54	8·8	45	11·0	55	9·1	64	13·3	65	11·7	53	8·1	56	10·6	74	15·4	55	9·7
1879	58	8·6	41	4·8	38	3·6	44	3·5	33	2·8	32	2·5	38	3·4	37	6·5	35	5·2	31	4·3	42	4·9	37	4·2	36	5·0	38	4·2	37	4·2
1880	75	12·6	54	8·2	56	9·8	58	9·4	49	11·0	51	12·9	54	10·3	57	12·2	53	13·6	58	16·4	60	9·6	53	12·4	56	12·8	69	18·2	55	11·6
1881	64	11·2	58	7·2	54	7·2	60	8·5	51	8·6	52	9·5	55	8·2	56	15·8	54	11·9	59	14·2	65	12·1	62	13·4	59	13·5	65	12·6	57	10·9
1882	71	11·9	67	11·4	72	11·2	69	11·7	71	13·0	67	12·6	69	12·0	63	16·9	67	13·2	74	19·8	65	12·5	68	14·8	67	15·4	83	19·0	68	13·7
1883	75	14·8	48	5·8	53	5·8	60	7·6	52	7·4	49	7·2	52	6·8	66	18·4	57	11·3	62	11·8	71	12·2	60	11·1	63	13·0	63	10·3	58	9·9
1884	68	14·6	52	6·9	44	5·1	50	6·9	47	5·3	42	6·0	47	6·0	52	16·1	51	8·7	57	10·2	64	13·2	54	9·8	56	11·6	62	8·7	52	8·8
1885	63	11·0	45	4·6	51	7·0	55	9·2	52	8·6	50	9·0	51	7·7	52	11·8	50	9·8	59	12·7	54	8·9	59	10·1	55	10·7	62	11·3	53	9·2
Means for 20 years, 1866-85	—	15·5	—	8·9	—	7·7	—	7·7	—	8·1	—	9·1	—	8·3	—	13·6	—	12·7	—	14·7	—	11·6	—	11·4	—	12·8	—	—	—	10·6

MEAN TEMPERATURE (in Degrees Fahrenheit).

YEARS.	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.	Means for Wheat-producing Districts.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	Means for the &c. Grazing, Districts.	Channel Islands.	Means for the British Islands generally.
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
1866	43·6	44·2	45·1	46·1	45·7	48·8	45·6	46·0	46·2	50·3	45·4	46·9	47·0	—	46·3
1867	43·9	43·9	42·3	43·0	42·6	43·2	42·8	43·4	42·9	45·8	44·2	44·9	44·2	—	43·5
1868	42·0	42·0	43·1	44·8	44·3	45·5	48·9	43·6	44·2	48·1	44·0	45·5	45·1	—	44·5
1869	40·9	41·5	41·8	42·7	42·9	43·7	42·5	42·5	43·9	46·6	44·7	45·5	44·6	—	43·6
1870	40·3	40·0	40·3	41·6	41·3	41·9	41·0	40·5	41·6	44·4	41·5	43·2	42·2	—	41·6
1871	42·2	42·1	42·3	41·5	41·7	41·8	41·9	42·4	43·0	45·3	43·2	44·7	43·7	—	42·8
1872	42·4	42·0	43·3	44·4	44·2	45·4	43·9	43·6	44·4	47·3	42·8	44·1	44·4	—	44·2
1873	43·4	42·9	44·2	43·9	43·6	44·5	43·8	44·2	44·7	46·9	44·3	46·3	45·3	—	44·6
1874	41·4	39·9	40·8	41·8	41·7	43·0	41·4	40·5	42·3	46·0	42·8	45·7	43·5	—	42·6
1875	42·7	42·1	43·0	42·7	43·0	43·5	42·9	42·8	43·6	45·9	43·5	46·0	44·4	—	43·7
Means for 10 years, 1866-75	42·3	42·0	42·6	43·3	43·1	43·9	43·0	43·0	43·7	46·7	43·6	45·3	44·4	—	43·7
1876	44·0	43·4	45·2	46·2	44·8	47·2	45·4	44·6	46·1	49·0	45·7	48·1	46·7	—	46·1
1877	42·9	43·3	43·6	44·4	44·1	44·8	44·0	44·5	45·3	49·2	44·4	47·4	46·2	—	45·1
1878	40·5	39·7	39·8	40·8	40·7	42·3	40·7	40·9	41·5	44·5	42·1	42·8	42·4	47·4	41·6
1879	41·8	41·0	40·3	39·7	39·8	41·2	40·4	42·2	42·0	45·3	43·0	45·0	43·5	46·9	42·0
1880	39·1	40·4	42·4	43·6	42·7	45·3	42·9	42·2	43·6	47·7	42·9	44·9	44·3	49·7	43·6
1881	43·2	43·0	43·2	43·5	43·2	45·2	43·6	44·3	44·5	47·7	44·3	46·8	45·5	49·3	44·6
1882	41·3	40·1	42·6	43·5	42·8	45·5	42·9	42·2	44·0	46·5	42·8	44·6	44·0	49·3	43·5
1883	42·4	43·0	43·8	44·2	43·8	45·6	44·1	44·3	45·0	46·9	44·6	46·5	45·5	49·5	44·8
1884	44·4	42·6	43·8	43·6	43·3	45·3	43·7	43·8	44·4	46·2	44·1	45·1	44·7	49·3	44·2
1885	41·5	41·5	42·6	42·3	41·9	44·0	42·5	42·9	42·7	45·0	43·7	45·1	43·9	48·3	43·2
Means for 20 years, 1866-85	42·2	41·9	42·7	43·2	42·9	44·3	43·0	43·1	43·8	46·7	43·7	45·5	44·6	—	43·8

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE TWENTY YEARS, 1866 TO 1885.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 3·4 in 1879	Ins. 5·0 in 1879	Ins. 4·2 in 1879
	Wettest	13·1 in 1872	18·6 in 1872	15·9 in 1872
Temperature	Coldest	° 40·4 in 1879	° 42·2 in 1870	° 41·6 in 1870 and 1878
	Warmest	45·6 in 1866	47·0 in 1866	46·3 in 1866

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR, FOR THE FOURTH QUARTER, 1885.

YEAR AND MONTHS.	0. Scotland, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the &c. Grazing, Districts.					
	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.	For the Month.	Since Dec. 30.
RAINFALL.—NUMBER OF DAYS WITH RAIN.																														
October	22	205	17	154	21	150	21	148	20	153	20	141	20	151	17	168	20	161	22	168	20	178	21	171	20	169	25	182	20	160
November	14	219	12	166	13	163	14	162	15	168	12	153	13	164	14	182	13	174	17	185	16	194	18	189	16	185	17	199	15	175
December	27	246	16	182	17	180	20	182	17	185	18	171	18	182	21	203	17	191	20	205	18	212	20	209	19	204	20	219	18	193
RAINFALL.—AMOUNTS IN INCHES.																														
October	4·20	28·25	1·59	18·53	3·91	20·19	4·48	22·44	3·61	22·43	3·94	22·36	3·51	21·19	4·74	35·49	4·23	25·69	5·35	31·94	3·87	28·31	4·08	33·58	4·45	30·99	5·22	25·09	3·98	26·09
November	2·27	30·52	0·88	19·41	1·29	21·48	2·37	24·81	2·30	24·73	1·57	23·93	1·68	22·87	3·11	38·60	2·74	28·43	2·56	34·50	2·37	30·68	2·23	35·81	2·60	33·59	2·16	27·25	2·14	28·23
December	4·56	35·08	2·08	21·49	1·78	23·26	2·39	27·20	2·71	27·44	3·46	27·39	2·48	25·35	3·99	42·59	2·83	31·26	4·74	39·24	2·63	33·31	3·74	39·55	3·59	37·18	3·90	31·15	3·04	31·27
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																														
October	87	1452	115	2044	134	2210	155	2589	145	2548	185	2879	147	2455	121	2007	136	2213	176	2568	132	2206	158	2536	145	2306	59	2930	146	2381
November	61	1513	73	2117	58	2268	57	2646	54	2602	86	2965	66	2521	61	2068	68	2281	109	2677	85	2291	127	2663	90	2396	165	3095	78	2459
December	41	1554	48	2165	45	2313	61	2707	52	2654	90	3055	59	2580	59	2127	59	2340	104	2781	74	2365	108	2771	81	2477	167	3262	70	2529
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																														
October	57	593	58	624	12	467	21	585	29	598	13	418	27	539	28	491	15	440	7	339	19	426	17	346	19	408	0	106	23	474
November	61	654	100	724	51	518	67	652	78	676	47	465	68	607	53	544	45	485	15	354	39	465	16	362	34	442	0	106	51	525
December	118	772	127	851	134	652	145	797	152	828	108	573	133	740	84	628	110	595	85	439	87	552	83	445	90	532	22	128	112	637
BRIGHT SUNSHINE.—NUMBER OF HOURS.																														
October	101	1164	97	1332	62	945	77	1381	78	1301	78	1391	78	1269	94	1250	64	1205	89	1453	87	1143	97	1376	86	1284	88	1760	82	1276
November	25	1189	51	1383	25	970	67	1448	51	1352	55	1446	50	1319	41	1291	44	1249	62	1515	56	1199	59	1435	52	1336	66	1826	51	1327
December	34	1223	58	1441	36	1006	51	1499	33	1385	44	1490	44	1363	31	1322	38	1287	47	1562	43	1242	50	1485	42	1378	57	1883	43	1370
BRIGHT SUNSHINE.—PERCENTAGE OF POSSIBLE DURATION.																														
October	35	29	33	34	20	24	26	36	26	34	26	36	26	33	32	32	21	32	29	38	29	29	32	36	29	33	29	46	28	33
November	11	29	22	33	10	23	27	35	22	33	21	35	20	32	17	32	18	30	24	37	23	29	24	35	21	33	25	45	21	33
December	15	28	24	33	14	23	19	34	12	32	16	34	17	31	12	30	15	30	17	36	16	28	19	34	16	32	20	43	17	32

1885.

EXPLANATION OF TABLES.

TABLES I. and Ia. are merely in continuation of the Tables given in the Quarterly Summary of the Weekly Weather Report, 1884. The whole of the values for 1878-85, however, have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *October* are those for the fortieth to forty-third weeks in the year; those for *November* are for the forty-fourth to the forty-seventh weeks; those for *December* are for the forty-eighth to the fifty-second weeks.

The figures given in the columns headed "Since Dec. 30" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0 are not included.

In the "Means for the Grazing, &c. Districts" the values for the "Channel Islands" are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

SUMMARY OF THE WEEKLY WEATHER REPORT, 1885.

VOL. II. APPENDIX I.] *New Series.*

VALUES FOR THE WHOLE YEAR.

[*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE WHOLE YEAR DURING THE TWENTY YEARS, 1866 TO 1885.

RAINFALL (in inches).

YEARS.	0. Scotland, N.		Principal Wheat-producing Districts.										Principal Grazing, &c. Districts.										Channel Islands.		Means for the British Islands generally.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the &c. Grazing, Districts.					
	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
1866	—	53·4	—	35·7	—	26·3	—	27·2	—	31·8	—	34·1	—	31·0	—	50·0	—	51·1	—	51·0	—	44·3	—	38·3	—	46·9	—	—	—	39·0
1867	—	48·1	—	33·3	—	24·1	—	24·7	—	27·7	—	29·0	—	27·8	—	43·7	—	49·1	—	46·0	—	43·2	—	36·3	—	41·9	—	—	—	34·9
1868	—	58·7	—	38·5	—	24·1	—	20·7	—	26·8	—	30·2	—	28·1	—	49·5	—	42·9	—	45·6	—	41·7	—	42·1	—	44·4	—	—	—	36·3
1869	—	51·1	—	31·0	—	27·4	—	25·9	—	29·3	—	30·1	—	28·7	—	40·6	—	44·9	—	46·4	—	42·3	—	37·9	—	42·4	—	—	—	35·6
1870	—	40·5	—	25·9	—	23·1	—	20·4	—	20·7	—	22·7	—	22·6	—	33·6	—	35·7	—	37·8	—	37·2	—	32·2	—	35·3	—	—	—	29·0
1871	—	41·8	—	29·0	—	26·4	—	23·1	—	27·3	—	28·7	—	26·9	—	40·5	—	38·9	—	45·0	—	36·9	—	37·0	—	39·7	—	—	—	33·3
1872	—	49·7	—	49·1	—	37·2	—	33·1	—	39·8	—	41·7	—	40·2	—	58·8	—	59·2	—	68·6	—	54·0	—	49·5	—	58·0	—	—	—	49·1
1873	—	50·7	—	34·5	—	20·8	—	21·1	—	24·1	—	26·5	—	25·4	—	42·5	—	36·7	—	43·4	—	37·2	—	36·5	—	39·3	—	—	—	32·4
1874	—	54·8	—	31·8	—	20·7	—	19·1	—	24·1	—	26·6	—	24·5	—	41·9	—	43·6	—	46·8	—	40·0	—	34·7	—	41·4	—	—	—	33·0
1875	—	42·0	—	32·5	—	27·3	—	26·8	—	35·1	—	33·3	—	31·0	—	40·0	—	41·7	—	56·2	—	33·4	—	40·4	—	42·3	—	—	—	36·7
Means for 10 years, 1866–75	—	49·1	—	34·1	—	25·7	—	24·2	—	28·7	—	30·3	—	28·6	—	44·1	—	43·5	—	48·7	—	41·0	—	38·5	—	43·2	—	—	—	35·9
1876	—	44·4	—	36·2	—	31·0	—	27·2	—	34·4	—	33·7	—	32·5	—	44·8	—	44·3	—	49·3	—	40·0	—	42·2	—	44·1	—	—	—	38·3
1877	—	55·9	—	41·2	—	30·3	—	27·7	—	32·9	—	35·1	—	33·4	—	54·4	—	57·0	—	57·1	—	48·2	—	46·7	—	52·7	—	—	—	43·1
1878	235	32·2	178	26·6	195	31·3	211	29·2	193	30·1	181	29·2	191	29·3	187	41·1	202	35·4	207	40·2	229	37·2	218	40·2	207	38·8	243	40·6	199	34·1
1879	217	28·3	198	29·9	203	26·0	227	31·7	199	29·7	197	32·2	203	29·9	199	40·7	195	34·1	207	39·8	228	37·1	219	39·4	209	38·2	228	35·2	206	34·1
1880	210	32·4	184	26·3	180	30·2	192	29·0	176	33·7	175	32·4	181	30·3	198	39·9	179	36·4	190	36·4	216	35·4	198	40·9	196	37·8	223	36·8	189	34·1
1881	222	33·8	199	29·3	197	28·2	193	27·0	177	27·7	171	28·6	187	28·2	206	45·0	190	40·1	195	39·3	234	36·9	209	40·7	206	40·4	208	33·9	197	34·3
1882	254	37·9	223	32·0	207	30·4	197	30·9	210	36·5	197	31·4	206	32·2	233	51·5	222	43·1	235	50·4	253	41·6	240	45·9	237	46·5	239	39·5	222	39·4
1883	247	37·9	197	26·3	196	25·9	199	28·9	190	30·8	183	26·5	193	27·7	221	50·6	197	35·4	217	38·5	247	40·0	218	45·3	220	42·0	250	34·5	207	34·9
1884	235	40·8	191	23·1	162	19·9	163	22·0	166	22·4	165	23·3	169	22·1	215	50·9	188	33·0	203	35·9	235	41·4	207	36·9	209	39·6	215	29·9	189	30·9
1885	246	35·0	182	21·5	180	23·2	182	27·2	185	27·4	171	27·4	180	25·3	203	42·6	191	31·3	205	39·3	212	33·3	209	39·6	204	37·2	219	31·2	192	31·3
Means for 20 years, 1866–85	—	43·5	—	31·7	—	26·7	—	26·1	—	29·6	—	30·1	—	28·9	—	45·1	—	41·2	—	45·7	—	40·1	—	40·1	—	42·4	—	—	—	35·7

MEAN TEMPERATURE (in Degrees Fahrenheit).

YEARS.	0. Scotland, N.	Principal Wheat-producing Districts.						Principal Grazing, &c. Districts.							Channel Islands.	British Islands generally.
		1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.	Means for Wheat-producing Districts.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	Means for the &c. Grazing, Districts.			
	°	°	°	°	°	°	°	°	°	°	°	°	°		°	°
1866	45·8	46·6	46·9	49·2	48·7	49·9	48·3	48·3	48·6	51·3	48·3	49·0	49·1		—	48·7
1867	45·4	46·5	45·9	48·3	47·9	48·6	47·4	47·4	47·8	50·2	48·5	49·3	48·6		—	48·0
1868	46·9	48·6	48·8	51·0	51·1	51·2	50·1	49·4	50·3	52·8	49·5	51·3	50·7		—	50·4
1869	45·8	47·2	47·3	48·7	49·1	49·4	48·3	48·2	48·9	51·7	49·6	50·6	49·8		—	49·1
1870	45·8	47·0	46·5	47·9	48·6	48·5	47·7	47·4	48·2	50·4	48·5	49·7	48·8		—	48·3
1871	46·1	46·9	46·6	47·5	48·3	48·4	47·5	47·6	48·0	50·7	48·6	50·0	49·0		—	48·3
1872	46·4	47·1	47·9	49·6	49·6	50·3	48·9	48·6	49·5	51·5	48·4	49·9	49·6		—	49·3
1873	46·1	46·9	47·3	47·9	48·3	48·9	47·9	48·1	48·4	50·4	48·2	49·6	48·9		—	48·4
1874	46·5	47·0	47·5	48·4	48·9	49·5	48·3	47·9	48·6	51·4	48·5	51·1	49·5		—	48·9
1875	46·6	47·4	47·7	48·4	48·7	49·2	48·3	48·2	48·6	50·6	48·3	51·0	49·4		—	48·9
Means for 10 years, 1866–75	46·1	47·1	47·2	48·7	48·9	49·4	48·3	48·1	48·7	51·1	48·7	50·2	49·4		—	48·9
1876	46·3	46·9	48·0	49·2	48·9	49·9	48·6	48·0	48·8	51·1	48·1	50·8	49·4		—	49·0
1877	45·2	46·2	47·0	48·7	48·7	49·5	48·0	47·4	48·2	51·2	47·6	50·5	49·0		—	48·5
1878	46·0	47·2	47·9	48·9	49·3	50·1	48·7	48·6	49·2	50·9	49·0	50·6	49·7		52·1	49·2
1879	43·8	44·1	45·0	45·8	45·8	46·9	45·5	45·6	45·9	48·4	46·1	48·3	46·9		49·6	46·2
1880	45·8	47·0	47·7	48·8	48·4	50·0	48·4	48·2	48·6	51·2	48·6	50·3	49·4		51·5	48·9
1881	44·1	45·4	46·2	47·7	47·4	49·1	47·2	46·3	47·3	49·4	47·4	49·0	47·9		51·8	47·6
1882	46·2	47·3	48·4	49·1	48·7	50·4	48·8	48·2	49·0	50·3	48·7	49·8	49·2		51·7	49·0
1883	45·3	46·9	47·4	48·5	48·2	49·7	48·1	47·6	48·3	49·6	48·0	49·4	48·6		51·5	48·4
1884	46·6	47·7	48·7	49·8	49·5	51·0	49·3	48·6	49·3	50·7	48·8	50·2	49·5		52·5	49·4
1885	44·4	45·9	46·8	47·5	47·3	49·0	47·3	46·4	46·9	48·7	47·2	48·6	47·6		50·7	47·5
Means for 20 years, 1866–85	45·8	46·8	47·3	48·5	48·6	49·5	48·1	47·8	48·4	50·6	48·3	50·0	49·0		—	48·6

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST YEARS FOR THE TWENTY YEARS, 1866 TO 1885.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 22·1 in 1884	Ins. 35·3 in 1870	Ins. 29·0 in 1870
	Wettest	40·2 in 1872	58·0 in 1872	49·1 in 1872
Temperature	Coldest	° 45·5 in 1879	° 46·9 in 1879	° 46·2 in 1879
	Warmest	50·1 in 1868	50·7 in 1868	50·4 in 1868

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NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given as Table I. in the various Quarterly Summaries were obtained as follows. Those for the years 1866 to 1877 were derived from observations made at the following stations:—

Districts.		Stations.
0. SCOTLAND, N.		Loch Broom.
		Helmsdale.
		Sandwick Manse.
1. SCOTLAND, E.		Inverness.
		Aberdeen.
		Ballater.
		Logierait.
		Stirling.
		Hawick.
2. ENGLAND, N.E.		N. Shields.
		York.
		Grimsby.
		Boston.
3. ENGLAND, E.	1866 to 1875.	Fakenham.
		Beccles.
		Witham.
		Bury St. Edmunds.
	1876 &1877.	Yarmouth.
		Cambridge.
		Bury St. Edmunds.
4. MIDLAND COUNTIES		Leicester.
		Derby.
		Tenbury.
		Shiffnal.
		Cirencester.
		Banbury.
		Hitchin.
5. ENGLAND, S.		Bridport.
		Selborne.
		Maidstone.
		London (Camden Town).
6. SCOTLAND, W.		Dumfries.
		Ayr.
		Castle Toward.
7. ENGLAND, N.W., and N. WALES		Llandudno.
		Manchester.
		Skipton.
8. ENGLAND, S.W., and S. WALES		Barnstaple.
		Bodmin.
		Haverfordwest.
		Rhayader.
9. IRELAND, N.		Galway.
		Bunninadden, Co. Sligo.
		(Doo Castle.)
		Waringstown.
		Strabane.
10. IRELAND, S.		Cork.
		Waterford.
		Killaloe.
		Portarlington.
		Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations:—

Districts.		Stations.
0. SCOTLAND, N.		Sandwick Manse.
		Stornoway.
		Dunrobin.
1. SCOTLAND, E.		Culloden.
		Aberdeen.
		Perth.
		Leith.
2. ENGLAND, N.E.		Bywell.
		N. Shields.
		Hull.
3. ENGLAND, E.		Royston.
		Holkham.
		Norwich.
		Wisbeach.
		Somerleyton.
4. MIDLAND COUNTIES		Derby.
		Nottingham.
		Cardington.
		Oxford.
5. ENGLAND, S.		Marlborough.
		Greenwich.
		Streatley.
		London (Camden Town).
		Weybridge.
		Strathfield Turgiss.
		Osborne.
		Bournemouth.
		Worthing.
6. SCOTLAND, W.		Greenock.
		Cockermouth.
		Silloth.
		Carlisle.
7. ENGLAND, N.W., and N. WALES		Stonyhurst.
		Bradford.
		Leeds.
		Eccles.
		Liverpool.
		Llandudno.
8. ENGLAND, S.W., and S. WALES		Gloucester.
		Taunton.
		Barnstaple.
		Truro.
		Helston.
9. IRELAND, N.	1866 to 1873.	Belfast.
		Milltown (Banbridge).
		Armagh.†
		Athlone.*
	1874 to 1877.	Moville.
		Milltown.
		Armagh.
		Donaghadee.
10. IRELAND, S.	1866 to 1873.	Dublin.*
		Curragh Camp.
		Buttevant.*
		Cork.
		Valencia.†
	1874 to 1877.	Kingstown.
		Parsonstown.
		Cork.
		Roche's Point.
		Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General, by the Scottish Meteorological Society (in their Quarterly Journal), and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1885 the means are obtained from the observations published in the Weekly Weather Report.

* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,
ROBERT H. SCOTT,
Secretary.